HNEDJ03	8052	967115	1 - 448	15 - 462	AI923367, AI583218, AI373875, H99041, AA614659, AA701656, AA455317, AI624093, AL120931, AI051123, N27564, AW131426, AA745905, H97544, N33217, AW193312, AA036731, AI811692, AI435894, AI784586, AA788753, AI348194, N47754, AI890992, AA479068, AA601557, AI287545, AA894619, AI682609, AW058621, AW081918, AW168028, AI346563, AW168929, AI433476, AI923848, AI566456, AI186661, N22090, AA678000, AI245176, AI245198, AI272966, AI963008, AI298694, AI187073, AA150090, D62527, AI435647, AI770052, AI680189, AA812522, AI890986, AI185100, AA403052, F11075, AI350680, AI866206, AI432046, AA514269, R20526, H46858, AI566594, R27302, R69930, AI143203, AW169284, AI080704, H18624, AI280761, AI697429, F36516, AI382360, AI472034, D61736, AI573004, AI888697, AI932870, AI355692, AA805532, H04179, AI355703, AA687849, R67586, N91144, N93493, AA757226, AA381382, AA381400, AI401617, AI359209, N66889, R32649, R33334, AA968981, AI589126, AA381701, AA381636, AA904561, AA381643, H18598, AA381945, AA381630, AW378387, AA381701, R52479, N89744, R75976, AI263846, N56395, AA381602, AA381460, AA654417, AW152083, AA381275, AA167390, AA476343, AW051256, W81443, AA804381, C02214, AW057830, AI805033, AI075972, AI242237, AA347509, AW378359, AA284149, F31071, AA889282, AI679723, AI679152, AW378412, AA765452, AI216644, AA427526, H27061, R33333, AA909840, AI802150, R69882, R07700, R76807, AI915452, AA381605, AW002830, AI570298, N34507, N75875, AI280767, H18597, AA632567, AA844237, W04813, and AC004520.
HNEDH59	8053	739533	1 - 515	15 - 529	R19732, R55864, H09860, R61075, R19557, and AB032971.
HNEDF15	8054	946986	1 - 1267	15 - 1281	AA573510.
HNEDD15	8055	812918	1 - 437	15 - 451	AI635028, R81017, AA084609, AI923451, AI923458, AW168420, AI267269, AW088012, AI733856, AA427636, AA464739, AI953290, R44593, AA653139, AW238594, AI284640, AA704393, AI611569, AI611598, AA213959, R62710, AW188742, AA904211, AI249683, AI870453, AW270345, AI587467, AW265688, AL138329, Z83822, AC004242, AC005011, AC007066, AC005099, Z98044, AC004811, AC005412, AL049539, AC005280, AC007751, AC006441, AP000009, AL031228, AL022323, AP000510, AF129756, AP000030, AP000212, AP000134, AL139054, Z95114, Z97184, AL031311, AP000252, AL050341, AC005209, AF196969, AC006241, AL035086, AC005778, AC005529, AL109963, AB023048, AC005548, AC005694, Z83844, AC007421, AF205588, AC007371, AC006323, AL031666, AC005839, AC002544, AC005527, AP000065, AC004673, AP000556, Z98946, AC006509, AL121658, AP000552, AL035659, AC005632, AC004883, Y14768, AL035460, D87675, AC005231, AC004921, AC002375, AC005736, AC005500, AC005562, AC007731, AL031284, AF196779, AP000172, AP000057, AL049795, AC005562, AC004815, AC006480, AP000125, AP000512, U85195, AL031846, AC007055, AP001136, AC004626, AL035405, AC004999, AL049761, AB023051, AC002476, AC006057, AC006511, AC006111, AC003029, AC000353,

Gene	No.	No.	Range	Range	Accessions
					AL121652, U82668, AC005291, U95742, AC006160, Z99716, AC006449, AC006141, AC005544, AC005914, Z84476, AC005606, AC004912, AL049776, AC004966, AB001523, AC005746, M30688, AC005488, AC005907, AC004659, AC000085, AC003982, AL009183, AC009516, AC002303, AL022336, AP000501, AC005245, AC004167, AL049830, AL023575, AL121825, AJ246003, AC004706, AC005225, Z83826, AC012384, AC003070, AF111169, AL078638, AC002073, Z83851, AC004702, AL049869, Z93017, AC002468, AL049766, AL023283, AL109827, AC006312, AC007688, AL034451, AL035249, X54486, AC005041, AC006965, AB003151, AC008039, AC007437, AC006475, AC004526, AL133163, AL022320, AC005823, AC002425, AC004777, AC002429, AC003098, AC004841, AC005701, AC007228, AC005619, AC006285, AC004491, AC005519, AC005332, AL049631, AC005399, AC004876, AL022721, AC004929, AC005971, AL121603, Z93928, AL033527, AL031575, AC005086, AL035420, AP000696, I40904, Z68128, AL009179, AC004967, AC003667, M63796, AC003030, U78027, AL031584, AL135783, AL022238, AC007707, Z98745, AL121653, AP000300, AC005486, AL049636, AC004033, AC004686, AC002115, AF165926, AC005740, U91326, AC005015, AL049653, AC007279, Z82178, AL109798, AC004517, U80017, Z97054, and AC005884.
HNECS71	8056	761415	1 - 351	15 - 365	T63576, W15491, AI149804, AI131519, AA843953, AW161793, AI092028, AA552204, AW136111, AI141347, AI185926, AA772103, AA035012, AI264527, AA620892, AA975679, AI292163, N22339, AA568942, AI698028, AW006799, N33511, N45217, AI338778, AI348018, AI184473, AI186835, AW162638, AI346238, AA738236, N20265, AA121312, N32971, N22986, AI268696, AI687031, AA613050, W47402, AA890278, H06229, AI354662, AI023013, AI146940, AI814446, AI523222, AI076913, AI031528, AA609073, AI360917, AI285388, AA608567, AI246045, AA508381, AA115499, AA609073, AI932474, R76084, AA443103, AA460311, AI146531, F02954, AA149816, AA522726, N20264, AI932474, R76084, AA443103, AA460311, AI146531, F02954, AA149816, AI032190, AI368495, AA523767, R79965, AA159633, H96348, AA976176, AA782201, AW190870, AI208639, T90250, AI695863, AA715129, W52013, AA372891, AA079783, AA079671, AA804874, N91526, AA641601, AA662579, AA513828, AA115027, AA058638, Z21398, R76133, Z21400, and S82464.
HNECP28	8057	469521	1 - 535	15 - 549	T92707.
HNECN28	8058	558790	1 - 239	15 - 253	X82015, L32185, E12100, D38171, D50403, D50402, L38592, Z34916, AF005380, U70255, U55068, L13732, A45655, AF005379, U39614, U12862, U27105, A45644, L38593, A45643, and S79364.
HNECI41	8059	712607	1 - 487	15 - 501	W88808, and AC004782.
HNECD74	8060	470015	1 - 538	15 - 552	
HNEBY64	8061	514762	1 - 754	15 - 768	AA468319, AW078909, AA602906, AA622801, AA468466, AI917891, AA610491, AL047427, AW302909, AI744830, AI262909, AC002045, AC006468, AL031680, AP000350, AP000113, AC007546, AL035683, AL109798, Z97053, Z94721, AL096761, AC004253,

HNEBY10	8062	968455	1 - 490	15 - 504	AP000557, U91326, AF038458, AL022395, AC006111, AC006509, AL009181, AL031311, AC003950, AL024498, AP001054, AP000696, AC004973, AC006211, AL096701, AL031652, AL050338, AP001053, AC004132, AC009509, AC008372, AC004883, U47924, AC000097, AC004465, AC006120, AC002312, AC006547, AL023807, AL035072, AC004263, AC005288, AL109753, AL121658, AC005368, AL009174, AC010206, AL031281, AF196969, AC005067, AL133371, AC005823, AC005081, AC002044, AL117258, AL031602, AL022721, AF053356, U85195, AC007263, AL109758, AL031432, Z98200, AL022315, AC006453, AC005225, AL031670, AC005695, AE000658, AL049576, AL109628, AL031284, Z97054, AC002316, Z85996, AC004686, AC007226, AC004231, Z93017, AC022517, AL022316, AC005037, AC004849, AC005089, AL049781, AP000553, AL031984, AC004983, AC004382, AC009516, AL031257, AC004491, AC005011, AL050318, AL034420, Z98742, AL121652, Z84487, AL031005, U95090, AC004884, AC005740, AC002300, AC020663, AC003663, AC004922, AC004605, AF001549, AF111168, AC006480, AC006255, AC005295, AB001523, AC002425, AC007707, U07562, Z95115, AC004706, AL031774, AC004812, AC003101, AL049795, AL049872, AL133355, AC007842, AL080243, AC007371, AC006958, AC004460, AC005666, AC005952, AC002086, AC002073, AC006367, AF111169, AC002472, AC005839, AC006262, AC007011, AL049776, Z99128, AC007283, AC007686, AP000555, AC002492, Z82244, AC004929, AC005332, AC006571, AC004477, AC002350, Z95114, AC004805, AL031591, AC004878, AC005229, Z99495, AL021878, AL031577, AB020863, AC000025, AC005747, AC005088, U95743, AL023494, AP000550, AL024507, AC005971, AL034429, AC004032, AL096712, AC006241, Z95118, AC002985, AL020997, AL022330, AC008018, AC006023, AF067844, and AC007225.
HNEBN04	8063	927811	1 - 464	15 - 478	AA932258.
HNEBM59	8064	950732	1 - 480	15 - 494	AA984174.
HNEBM40	8065	868109	1 - 418	15 - 432	AL121603.
HNEBJ95	8066	529572	1 - 188	15 - 202	
HNEBJ81	8067	529571	1 - 158	15 - 172	
HNEBJ67	8068	529573	1 - 113	15 - 127	
HNEBJ62	8069	861074	1 - 276	15 - 290	AI620676, AC004929, AC002996, AC005037, AP000240, AC003070, AL049779, AC006946, AC005295, and AL008718.
HNEBJ43	8070	529574	1 - 187	15 - 201	
HNEBJ31	8071	529577	1 - 321	15 - 335	
HNEBJ21	8072	529578	1 - 216	15 - 230	
HNEBJ10	8073	968440	1 - 267	15 - 281	AA826197, and Z99128.
HNEBJ09	8074	529579	1 - 158	15 - 172	AP000556, and AP000557.

HNEBJ07	8075	861072	1 - 350	15 - 364	N53565, AI701080, AW263784, AL041578, AL041530, AA490097, N64437, AW245179, AW090754, AI566408, N87410, F31619, AA348402, AA456422, AI364074, AA371642, AW408686, AW074022, AI924806, AA558857, R69934, AA569065, AW104748, AW408106, AA507991, AA078255, AW373604, AA287618, AA776211, AA639025, AW383357, AA317096, AI038597, AI568678, AA780386, AA586850, AA600126, AA156484, AL135074, AA483942, T65978, AA192888, AI370650, AC007358, AL021154, AC007917, AL031985, AP000344, AC006449, AC004655, AC007384, AC005099, AL109758, AC004185, Z83822, AC005821, AL035423, AC002430, AL049569, AC006530, AC002480, AC005017, Z85986, AC004526, AP000689, AP000509, AC005529, AL031778, AJ251973, Z94056, AB003151, AF003626, AL049589, AC006948, Z84480, AC002477, AC003977, AL031651, Z84469, AC002988, AC005255, AC002549, AC012627, AC002558, AC005164, AJ003147, U64453, AF124523, D84394, AC002070, U91322, AC003030, AC006511, AC004106, AC004491, AC005777, Z98750, AL031290, AF195658, U80017, AC004019, AC005913, AC006241, AL109984, AC005800, AF053356, AC007538, AC007055, AC002312, AP000240, AP000557, AC005971, AF111169, AL109798, AC005200, AL022323, AC004854, AC005535, Z82244, AC005725, AP000558, AC002350, AC006388, AC003692, AC007993, AC004929, AL117330, AC004834, AC004531, AP000553, Z82214, AC002094, AC003982, AL049780, AC006441, AC007225, AC007536, AP000555, Z46773, U47924, U96409, AC005747, AC005053, AL121652, AL009181, AL049839, AL133371, AC009516, Z83840, AC006487, AC007546, AC006515, AC005858, AC005841, AC004905, AC004814, AC007090, Z93023, AC004832, AL022476, AL096701, AC005102, AC004583, AC005332, AP000275, AC006132, AL078638, AB000882, AL022238, AL133448, AL096791, AC003684, AC005751, AF091512, AC008012, AC005914, Z93020, AC006064, AL035089, AL050332, Z98036, AC004231, AP000105, AP000037, AP000503, AC004638, AC005363, AP000690, AL008721, Z97183, AC002416, AP000959, AC006251, AL008583, Z98256, AC002310, AL023575, AL121754, AC003663, AL049834, AC016027, AL121653, AC005089, AC006130, AC016830, AC004253, AL021366, AF205588, Z68226, AC006539, AL049697, AC005722, AC007344, Z97876, AP000114, AP000156, AC002526, AC004882, AC006480, AL049745, AL031774, AL122023, AL096678, Z68756, AF134726, AC005095, AC004477, AC008273, AP000025, AL049776, AC005820, AC003041, AL031575, AL009183, and AL078632.
HNEBF27	8076	684467	1 - 255	15 - 269	AA340904, AC002430, and AC007384.
HNEBF20	8077	529643	1 - 66	15 - 80	AI298252, AI954850, AI743793, AI807633, AI537343, and AI208171.
HNEAQ86	8078	575534	1 - 288	15 - 302	F30650, AI567391, T05684, F30586, F35689, F16848, AA507814, AA570441, AA515728, AI707744, AW419389, AA654482, R74433, T17332, AI869797, AA947369, AA340737, AA229159, AL121287, AI689198, R89560, AA610381, AA598736, AL037632, AI246996, AA338770, T39217, AA226532, AA527109, AW328202, R34070, AW150387, F30158, AA985199, AC002544, AL096791, U91326, AC005231, Z82215, AL022327, AC006312,

HNEAQ37	8079	507280	1 - 330	15 - 344	AF200465, AL034379, M87889, AF196969, AC005015, AC003002, AL034420, AC005696, AC005911, AL132987, AC005747, AC003982, AC005225, U75285, AC004859, U67809, AC005736, AP000008, AL135744, AC004686, AC005212, AL109827, AC020663, Z85986, AF001548, U73647, AL049712, AC005399, L78810, AL035659, AP000704, AL109758, AC006011, AC004000, AL031657, AC005944, AC002310, AC002551, AR060077, AC005006, AC006241, AC002398, AC006121, AF053356, AL049539, AL023807, AP000047, AC005531, Z84469, Z83844, AC012627, AC002558, AC007878, AF031078, AL050332, AP000555, AC005239, AL121603, AC005837, AB001523, AC007059, AC006132, AC002350, Z97054, AL023882, AF030876, AC004922, AC005084, AC002996, AC007766, AC005003, AC004655, AP000116, AP000115, AL031133, AC004656, Z69917, AC004858, AC004787, AC005104, AC004816, AC006449, AC004878, AC004963, AC005920, AL020993, AF095901, AF196779, AC007376, AC006512, AC004491, AC006023, AC005632, AC006130, Z98051, U07562, AL023553, AC005088, AC005004, AC004905, AC005074, AL050308, AF109907, AC005280, AC008372, AL121658, AL049795, AC004854, AC003041, AC004531, AP000503, AC007308, AC005049, AF038458, AL023879, Y10196, AL096678, AB023049, AC002365, AC007637, AC005256, AC005081, AC005666, AP000030, AC004929, AL024509, AL109984, Z95115, AL031984, AL031230, AL021917, AC005488, AC004750, AC005102, AL133445, AC005996, AC005067, AF126403, AF030453, M63796, AL050318, AF118808, AC007537, AC005523, U91318, AC004770, AC005914, AC000094, AC000085, AP000303, Z82180, Z93023, AC000003, AC003026, L44140, AC006480, Z84466, AC007688, AL049843, Z75891, AC004844, AL023803, AL021366, AL031293, AC005529, Z82901, AC007686, AL022323, Z83843, AC007993, AL080243, AL021977, AC005324, AC005821, AC006538, AF111167, AC005089, AL035417, AL050309, AC005823, AC005695, AL020997, AC004834, AC005578, AC005622, AC002984, AP000502, AC000159, AF196971, AC007226, AP000703, AC004985, AC006285, AC007731, AC003043, AL031668, AL008726, AC005331, AC003108, AC005921, AC005500, AL021154, U63630, AL031670, AC007192, AF134726, AC003962, AC005338, AC002119, AC005484, M20903, AC004927, AF001552, AC016027, AL034429, AC004832, AC006965, AC007774, AL022311, AP001053, AC004672, AC007676, AC006277, AC000026, AC010168, AC006262, AL031680, and AC000025.
HNEAN10	8080	968468	1 - 395	15 - 409	H30730, and H30813.
HNEAK47	8081	529646	1 - 251	15 - 265	H41860, AA321412, AA936323, and AA213692.
HNEAF71	8082	761414	1 - 473	15 - 487	W81648, W81649, AI754581, AW374534, AI902340, AI902342, and AF086458.
HNEAA59	8083	738531	1 - 511	15 - 525	
HMWJD93	8084	849419	1 - 478	15 - 492	H75348, AW406166, AI122621, H40371, H75349, AI318176, AI638837, AA315764, AI189304, AA093383, AI335256, AA723497, AI344272, AI599250, AI192481, AW242317, AI140369, AW406665, H60725, AA330135, W68219, R91106, AA004461, AA676608, AI219489,

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HMWIZ55	8085	731809	1 - 210	15 - 224	AW301879, AW408709, N27559, AA856945, R20715, H71238, AC006017, AL049712, AC005837, AC016027, AC016830, Z85986, AC004605, AC005618, AC006277, AP000355, AC004890, AC004560, AL031666, AC005520, AC007845, AL034423, AL009181, AC004985, AL031728, AL031295, AC004056, AC007955, AC006512, U93305, AC005102, Z79997, AP000512, AB023049, AC016026, AL021878, AL049832, AF024533, and AL078611.
HMWIX77	8086	973813	1 - 634	15 - 648	D58283, D80043, D50979, D59467, C14389, D80188, D80195, D80227, D80164, D59275, D59502, AA305578, D80391, D80253, D59787, AA514188, D57483, D59859, D80022, C14331, D80166, D51423, D59619, D80210, D51799, D80240, C15076, D80196, D80269, D81030, D80038, D81026, D80212, D80193, D80219, D80366, D59927, D80378, D59610, D80522, AA305409, D51022, D59889, D50995, D80045, D80024, D80248, AW177440, D80241, C75259, AW360811, T03269, AA514186, C14429, D80251, AW178893, D51060, C14014, D80133, AW375405, AW179328, D80247, D80439, AW366296, AW378532, AW377671, AW360844, D80268, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW177731, AW177501, AW177511, D58253, C05695, D80302, D80132, AW178762, D51103, AW179020, D51250, AW352171, D80134, D52291, AW377676, AW178906, AW352170, AW178907, AW178908, AW179019, AW179024, AW178775, AW369651, D80157, AW177505, AW177722, AW352158, AW360841, AW352117, D59373, AW178909, AW177456, D51759, AW179004, AW176467, AW179329, AW178980, T11417, AW177733, AW378528, AW178754, AW179018, D59695, F13647, AW179009, AW179012, AW178914, AW178911, AW378525, C06015, AA809122, T48593, D80168, AI910186, AW367967, C14227, D58246, AW178983, AW177728, AW178774, D81111, AW378543, AW360834, AI905856, AW352163, D59653, C14298, D80064, C14407, D45260, D59503, AW178781, AW177723, AW352120, AW367950, AW178986, AW378540, H67854, C03092, H67866, AI525923, D59627, D59317, D58101, Z21582, D59474, T03116, AI525227, D80258, C14957, D60010, AW177734, AI525917, AI577774, D80014, C14973, C14344, AW378533, AI535686, D51221, D51097, D51213, D59551, AI525242, AI525920, AA514184, D60214, T03048, AI577751, C14046, AI525912, AI525235, D45273, C16955, AI525925, AA285331, AW378542, AW378539, AI525215, AI525237, Z33452, D50981, C05763, T02974, AI525222, AW360855, D31458, T02868, H67858, C04682, AI525928, C13958, D51053, Z30160, AI525228, N66429, D80314, AJ132110, AB028859, AF058696, AR008278, A84916, A62300, A62298, AR018138, Y12724, D26022, A82595, X67155, Y17188, A25909, A67220, D89785, A78862, D34614, AB002449, AR060385, D88547, AR016808,

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HMWIX37	8087	1 - 363	708676	15 - 377	AI283313, AA910680, W70158, AW387836, W70197, R69239, AW387883, AW387786, AW387795, AW387782, AW387778, AW387775, R77897, AW020592, AI557808, AW020397, AW020710, AW021717, AW019988, AW020425, AW021178, AW023351, AW023955, W48671, AA099519, AW020629, AW023863, AW020480, AI687134, AI525653, AW022299, AC010202, AC005365, AC004686, AL021393, AR050959, X60769, and AC002480.
HMWIS12	8088	1 - 1087	970753	15 - 1101	AI684734, AW134873, AA912105, AI808963, AA905108, AA764759, AI911204, AW268977, AW405428, and AW086137.
HMWIQ64	8089	1 - 1650	842657	15 - 1664	H51069, H93820, H93316, H51070, AL048969, AA603421, AA535216, AA679794, N57681, AI281818, AA714110, AI859438, AW410354, AI380617, AA129746, AW419389, AA714011, AW407632, AW021161, AI884383, AA489240, AA601230, AW022934, AW151247, AI523074, AA604831, AW341978, AI291439, AI537995, AI536858, AI130709, AI709307, AW131356, T74524, AA678950, AW272640, AI814682, AI446623, AI735609, AL120959, AA558404, AL042906, AI340151, AA829044, AC002126, AC004491, AC005081, AL096791, AC006449, AC005632, AL031670, AC004859, U91326, AC002365, AL109865, AC005015, AC005332, AC007731, AC005500, AF196969, AC005399, AC006211, AC006121, L78833, AC005225, AC003982, AC005527, U47924, AF129756, AC004983, AL031680, AL049779, AL049540, AL121603, AC005088, AL109627, Z98941, AC006312, AC002316, AC002425, AC005529, AL139054, AC004991, AC005736, AC005519, AP000512, AL035072, AL031846, AF001548, Z98946, AF001550, AC002477, AL031230, AL031311, AL024498, AF111168, AC003101, AC005911, AC005011, AC003684, AC002544, AC006441, AC006111, AC004019, AC002301, AC005488, AL031673, AC004841, AC002303, AC005409, AC005207, AC006480, Z83840, AC002429, AC005484, AL133245, AJ011930, AF109907, AL031133, AF047825, AC007880, AL133246, AC005520, AP000557, AC007686, AC004253, AL049776, AL031662, Z83846, AC007371, AL096701, AC005288, AC009516, AC003043, AL080243, AC002565, AC005089, AF001549, AL021391, AC003029, AC002470, AC004033, AC002073, AP000134, AP000212, AC000052, AC007637, AC004659, AC006538, AL022302, AF134726, AC004584, AC000353, AC000052, AC005695, Z98884, AC005231, AC004821, AC004000, AL121658, AC003109, AP000359, AL133163, AC004797, AL031283, AC007263, AC007536, AF001552, AC005368, Z99716, AL050318, AC012384, AC004139, AC009247, AC016025, AL035659, AP000558, AL031282, AC002543, AC002302, AC002350, AC002347, AC004477, AC005599, AC005913, AC005971, AP000514,

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HMWIQ44	8090	716509	1 - 625	15 - 639	
HMWIO15	8091	956253	1 - 360	15 - 374	
HMWIM05	8092	861094	1 - 567	15 - 581	AA160427, AI912401, AA228442, AW272815, AA972523, AA484892, AA728911, AA449923, AI733856, AI860535, T74524, AW019964, AA502980, AI049643, AA653291, AA904211, AW270385, AI864500, AL041375, F23327, AA593537, AA485402, AA757758, AI537995, AI536858, AI130709, AA515351, AI142231, AA577985, AI989408, AA502977, AI434311, AI690379, AW237905, AW265688, AA827383, AA298365, AI791659, AW169038, AL139054, AC003029, AC006111, AC007216, AC006211, Z84480, AC005102, AC005519, AC004883, Z95114, U95742, AC007227, AC006312, AC005086, AL109798, AC005484, AC005412, AL008582, AC005229, L39891, AC005730, AP000355, AC005722, AL031728, AL009183, AC004230, AL022320, AL121603, AC002996, AC004583, AL022316, AP000090, AL109963, AC005372, AC004106, Z83840, AC007690, AC009247, AC005914, U78027, AC005933, AL109628, AF053356, AL035420, AC007240, AL022476, AL050318, AL031255, AC003101, AC006449, AC006064, AP000704, AC004000, AP000044, AP000112, AC007421, AC000025, AC005839, AC020663, AF207550, AC005696, AC004966, AC004019, AC002128, AC005031, AC031447, AC005971, AL031311, AC005071, AC004819, AL021393, AC004876, AL023575, AL035422, AP000067, AC004975, AL096701, AC005776, AC004253, AC003109, AL079340, AL035423, AC004859, AC005057, AP000689, U96629, AC005488, AC004813, AC007225, AC005368, Z98946, AC006317, U63721, AP000557, Z97056, AP000008, AC006511, AP000555, AC004963, Z93930, Z84469, AC005399, AC006285, AC004967, AC005670, AC004821, AC006539, AC002350, AC004851, AC005015, AC005261, AC005837, AC004955, AC005899, AC004884, AL035681, Z98044, AC004491, AC004263, AF190465, U80017, AC005081, AL121825, AL031681, AC005225, AL020997, AF196779, AC002310, AL034420, AL049569, AF134726, AC002040, AC002477, AL121652, AL031767, AC007308, AC006077, AC007226, D87675, AF001552, AC004383, U47924, AC007066, AC000353, AC007686, AC009516,

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HMWIL08	8093	959512	1 - 708	15 - 722	AI377192, AI184080, AA450266, AW026855, W65480, AI869635, H92183, H14198, AA974576, R58922, R90834, H97357, and AA351111.
HMWIK10	8094	964701	1 - 611	15 - 625	AA776466, AI470184, AI742757, AI750964, AA865422, AW005649, AI750965, AI969031, AI741029, AW139279, AA338882, AI445299, AW341808, AB032959, and AL021393.
HMWIG75	8095	767332	1 - 318	15 - 332	AW193265, AW408717, AI613280, AI350211, AI281881, AI270117, N53150, AL046409, AA623002, AI860013, AA828704, AI284640, AI334443, AI431303, F36273, AI358571, AA490183, AL119691, AA482711, AI799642, AA587604, AI754658, AW083402, AA613203, AA834707, AW261871, AL038705, AW438643, AA577906, AW083364, AW270270, AL044940, AW276827, AL037683, AA806796, AA722372, AA720702, AA551503, AA493471, AA613232, AI370074, AL041690, AW338086, AI370094, AA862173, AI133164, AA535661, AI570261, AI457397, AI375710, AA503947, AI744995, AI688846, AA584167, AI053672, AW274346, AA599920, AW193432, AI814735, AI471481, AI286356, AA631507, AA723017, AI634384, AI744188, AL038785, AA364429, AA719805, AW020141, AI696962, AI376100, AI921649, AA630925, AA491814, AW406447, W79504, AA134367, AI537955, AA213741, AA649642, AI281697, AI499938, AI368745, AA525824, AA664015, AI076616, AA362349, M86143, AI956124, W05405, AI559705, AA219129, AA661921, H71429, AI798473, AI969436, AA501600, N66026, AA368936, AA126777, AA350859, AA594725, AA601388, AA984708, AI963720, N27763, AA164251, AA469451, AI370878, AW148792, AA244357, AI017024, AL138455, AL040921, AI002834, AL043009, Y18431, X95097, AF077058, X55932, AF015167, D83989, U57005, AF015147, X55925, U18391, U18394, U18392, X54179, A39972, X55926, U57009, X54180, U18395, U18393, I51997, AF015157, U12582, X55927, U67801, U57006, X53550, X54175, X54181, X54178, U18398, X75335, U57008, U67832, X55924, U18387, X54176, AF015166, U67831, X55931, S75201, U18390, U04355, L47228, Z22650, AF015156, X55923, L35531, U67829, AL033543, U67827, AF015151, X55929, AF015149, X62356, X55930,

HMWIG26	8096	861091	1 - 354	15 - 368	X55922, U18388, U12580, AL121603, U18400, U14701, AC007919, AC006511, AC004675, X55933, AL022302, X74558, AC005784, Z69666, AF088219, AF196779, S56773, U67828, U12584, AL023879, AP000692, AC005745, U18396, AC009516, AC004019, U67231, AC004987, U57004, U95742, U57007, U67229, AC020663, AC003007, AF015170, AC005034, AC007216, AL035413, AP000275, AC005944, AC005412, AF060568, AL079340, AC007848, AC004940, AC002429, AL080243, AC005280, AL078463, AC004899, AF029308, U67233, AC004152, AC004686, AC004954, AL034555, AL022323, AC010168, AP000037, AP000105, AL132641, X88791, AP001068, AB020859, AF010238, AC004517, AC007011, AC007666, AC006077, AL078477, AF190465, AL096776, AL049766, AC007051, Z98043, AL023882, U82668, AC004592, AJ246003, AF015161, Z98051, AC005632, Z49816, AC005039, Z30979, AL050097, Z98752, AC005740, AP000552, AC004217, M37551, AL121591, AC003986, M87919, X76629, AC007298, U67226, U47924, AC005242, AC002549, AC016026, AR042836, AP000252, AC007182, AC005046, U75931, AC004895, AC005839, AC006442, AF001549, AL035425, AC004167, AC006271, AC000118, AC006251, AL117256, D87009, AF165142, AC004638, AC005913, AL121823, AF015165, AC005291, AB016897, AP000246, AC003003, AL035659, AC002470, AC004622, AC004848, AC004381, AP000207, AP000129, AL031846, AC005666, U60059, AC004650, S43650, AL049845, AC005081, AC004979, AC006538, U67225, AC002451, AC004637, AC000047, AL021707, AL008716, S70689, AC004986, AC002301, AF015153, AC005529, AC004029, U67222, AL121658, AC002377, AC000353, AP000557, AC006128, AL080250, AC006017, L43392, AL136297, AC007463, AC004931, AC002456, AL031848, AL027722, AL031777, AC000100, AC009263, AC002540, AC006925, AC000385, AC004453, U18389, AP000556, and AP000855.
HMWIG17	8097	663972	1 - 473	15 - 487	R91765, H80580, AII27315, and W69323.
HMWIG13	8098	657260	1 - 341	15 - 355	W92749, AA135553, AA723171, AA971474, AA716724, AA723148, AII129477, AA722631, AA126701, AA759279, AA128243, AA054734, AW130619, AI342776, AA521028, AA758558, H30397, AI312713, AW007796, AA814686, AI458733, AI911961, AI356318, AA448696, R50475, AI992039, AA885885, AI335606, AA448808, AI244820, AI243873, AI692581, AI018349, AA746499, AA831847, R69848, AA045310, AI279451, AI540785, W84621, AA648741, AI686115, R23217, AI652242, AI277449, AA983572, AII99899, AA977601, AA434264, AI284514, AI356077, H30405, AI061132, AII48418, AW300520, AA040698, AI969976, AW083124, AII60129, AI424072, AI536950, AI093214, AI089947, AW170119, AA811443, AA936383, AII42495, AW006134, AA447432, AA401210, AI831954, AA383372, AI371031, AA555078, AI189568, AI830792, AA043162, R69469, AI401693, AI738759, AI910399, AI188058, AW090281, AA641027, Y17454, AF159025, and AB030835.
HMWIG01	8099	913689	1 - 147	15 - 161	
HMWID28	8100	419821	1 - 585	15 - 599	T92652.

HMWIA19	8101	1 - 256	15 - 270	
HMWHZ43	8102	1 - 364	15 - 378	AA872717.
HMWHW8 2	8103	1 - 277	15 - 291	H71976, and AC004128.
HMWHV36	8104	1 - 364	15 - 378	T82833, and AW404502.
HMWHV12	8105	1 - 408	15 - 422	W69602.
HMWHP86	8106	1 - 305	15 - 319	AI952414, AI821854, AA594979, AI821710, AI253514, R06129, AI735011, and AA641406.
HMWHD94	8107	1 - 214	15 - 228	AA158392, AA226584, AA484143, AI002734, AI298246, AI241835, AA311194, AA640704, AW075845, AC005480, AC004955, AP000512, AL049759, AC005221, AP000359, AC016025, AC006480, AF064861, AL035072, AC004765, AJ003147, AC003029, AC002375, AC004805, AC005037, AC004883, AC004921, AC005755, AC006285, AC005803, AC005484, AC006538, AC006065, AL050348, AC008126, AL137191, AL022326, AL049780, AC005940, AL096791, AL031432, AC006166, Z84480, AC002420, AC005971, AC007695, AB023051, AC002115, AL049871, AF196969, AF091512, AC004865, AL078614, AC007738, AF195658, AC006530, AF067844, AC004821, AC007537, AL031602, AC003982, AC004701, AL023494, AC007360, AC002425, AP000114, AP000046, AL132994, AC007639, AC002351, AB020865, AP000269, AC008134, AC005746, AC005519, AL121652, AL031281, AC005887, AC005921, U73636, AL031255, AL132987, AL096701, AC004000, AC006064, AP000032, AP000035, AC005291, AC007387, AL035458, AB023049, AC005520, AL022313, AC019014, AC004890, AC006344, AC006387, AC005696, AP000103, AL035086, AC006251, AC005409, AL034417, AC002565, AC005768, AP000556, AC008101, AP000260, AC004682, AL035413, AC004796, AC006449, AL035587, AC007688, AC006138, L44140, AC006522, Z83851, AC004019, AC006039, AL022345, AC004596, AC006312, Z69838, Z84484, AC005091, Z93017, AF053356, AC004854, AC007193, AP000208, AP000130, AP000099, AC002470, AC004963, AL132777, AL021391, AP000247, AP000344, and AC005922.
HMWHB71	8108	1 - 1244	15 - 1258	AI707744, AL120282, AI688963, AL046225, AL045756, AI268019, AC006942, AC002565, AC006430, AL034555, AC007686, AC004816, AC005231, AL080243, AC002425, AC006111, U07562, AL035455, AC004491, AL133163, AC004832, AC004922, AC003101, AC009516, U95740, AL020997, AL021546, AC005740, AL031255, AL031283, AC006126, AC002551, AC007216, AF196779, Z83732, Z85986, AL079342, AL035420, AP000553, AC004967, AC005015, AL024507, AL020995, AC005736, AC004257, AL031228, AC002288, AC004887, Z94044, AL022322, AC012384, Z97054, Z83822, AP000030, AC006285, AF205588, AF111168, L78810, AC016025, AL133245, AC006001, AC005291, U95742, AL096701, AL049749, AC000052, and AC007934.
HMWGW7 9	8109	1 - 652	15 - 666	H29797, H08896, and H70302.
HMWGQ48	8110	1 - 633	15 - 647	AA878492, AC005907, AC005089, L78810, AL031311, AL096791, AC007055, AP000359,

HMWGI79	8111	774806	1 - 688	15 - 702	

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HMWGE06	935593	1 - 332	15 - 346	AA928968, AI143152, AW296605, AF064858, and AL121757.
HMWFY93	506636	1 - 444	15 - 458	R34758, and AA642317.
HMWFN80	573608	1 - 334	15 - 348	L81392, AC004749, and L81391.
HMWFN37	861123	1 - 452	15 - 466	AJ003358, AA453553, and AP001061.
HMWFN32	573603	1 - 295	15 - 309	Z60346.
HMWFI18	666681	1 - 334	15 - 348	R89320.
HMWFG88	592078	1 - 588	15 - 602	R10175, AW401608, AW403120, AC004233, AF014118, and AR003664.
HMWFD86	785629	1 - 400	15 - 414	AA251682, AA601385, AJ003636, and AP000523.
HMWFD68	861124	1 - 148	15 - 162	AA730422, AA574448, W01639, AA890425, AI053458, AW303008, AI123396, AA716211, AA702098, AI524453, AA449923, AA368616, AA077285, AA832077, AI142231, AA483108, AW378752, H56003, H42968, AI888419, AC005412, AL021877, AC005372, AC005254, AC005531, Z98304, L78810, Z84469, AL133445, AC000355, AC002988, AF165141, AC002558, Z76735, AL133500, AC004593, AL033527, AL034351, AC005566, AC005255, AC006581, AL049636, AL109798, AC005852, AL008582, AC007201, AC005736, AC004933, AF061032, AC000117, AC004993, AL121754, AC011594, AL035691, AC006277, AP000552, AC004382, AC006985, AC004918, AL049743, AC002544, AC004542, AC007279, AL022336, AP000691, L34160, U20499, AL008637, AC005666, Z82184, AC005969, AL021939, AC000061, AC004813, AF030453, AC006014, AC005088, and AC004674.
HMWFC64	573596	1 - 311	15 - 325	AI284640, AI370074, AA469451, AI334443, AA720702, AI370094, AW303196, AW193265, AI312309, AA490183, AW085780, AW301350, AW274349, AI281881, AI350211, AA521399, AA521323, AW103758, AA984708, AI962050, AI613280, AI281903, AW261871, AW072923, AW407578, AW406447, AI610159, AW327868, AL138455, AI138265, AI801591, AA587604, AI732865, AA613227, AI567076, AW419262, AI619997, AA780515, AL048925, AI053672, AW238278, AW340844, AA491814, AI688846, AI375710, AL119691, AW438643, AW193432, AA177061, AI341664, AI379719, AA135842, N71728, AA468131, AI345654, AI471481, AL048626, AI754658, AA665330, AI799642, AI305547, AA947547, AW338086, AI744995, AI801701, AI718446, AW406162, AA177063, AI249997, AA577906, AI246119, AA747276,

HMWET56	8123	812712	1 - 246	15 - 260	AI307608, AW270382, AA523843, AA649642, AA630925, AL042420, AI499938, AA610491, AA846935, AI564496, AI298710, W79504, AA502103, AI017415, AI289067, AI246796, F34498, AI345518, AI358501, AI798265, AI674873, AI733755, AI685198, AI537955, AA507547, AW406659, AL038705, AW376931, AI473943, AW269488, AW072587, AI371070, AI475569, AA448231, AA452563, AA623002, AA613345, AA599920, AL121235, AI919029, AA737318, AA581903, AW088058, AI110770, AI537506, AA055169, AI640702, AI469968, AW270270, AA551503, AA846957, AA678499, AI821271, AA682912, AI254316, AA744341, AI471572, AA491882, AI061227, AA679672, AA316905, R77905, AW103509, AI956037, AI357288, R88888, AA584082, AA493708, AA977743, AI245679, AA594145, AI709365, AA837677, AA661948, AA598997, AW085991, AI860020, AC006115, X54181, X54178, AC005529, U18391, U18394, I51997, U18393, U57009, U18395, X55925, X55926, X55927, X54176, AF077058, U57005, U18392, X55923, U18398, AF010317, AP000555, X54179, AC004882, U18399, AF015147, AF015157, U57006, X53550, X75335, S75201, U18387, U57008, Y18000, Z94801, AF015149, AC006958, AC004159, L78833, U18390, AC005007, X55932, AC006367, U95740, AF121781, Z99716, AL121655, AC005015, AL034420, AF015148, X76629, AL022323, AL080243, U57007, AL132800, AL132777, AC006486, AC005081, AC005235, AC005412, AF015150, M87919, AC002564, AP000497, U04355, AC005183, AL035423, U14701, AF045448, X55930, AL133396, AC004099, U18400, U67828, AC006480, U78027, Z85995, AC004531, M37547, Z95329, AC004028, AC007242, AF200465, U67231, AL035681, AC012384, AL031659, AC005274, AL079295, AC007055, X88791, AC006116, AP000014, AL132712, AC005971, AC002470, AF064861, AC006277, AC005215, AL078604, AC003101, Z49816, AC005565, AC009516, AC005940, AL034419, AC007666, AB020866, U67831, L81648, X03272, AC007227, AL049766, AC002094, U67827, AL022098, AC008012, AL031228, AL031286, Z81369, AL024507, AC005088, AC005531, AC005004, AL080238, AC006285, AP000477, U62293, U67211, AC006582, AL049872, AC004149, Z98744, Z96074, AC003043, AL031681, AC006057, Z84814, AC007308, AC005071, AC005911, AL035460, S77605, U67233, AL022311, AL121653, AC005037, AL008719, AC005527, U40369, AC004583, AF141309, AC004890, AC002996, AC005184, AC002456, AC000025, AC016026, AL121603, AP001172, AC006205, AC004816, AC007065, AC005778, AC005844, AC002077, AC000070, AL049647, AL035425, Z81308, X55928, AC007681, AC007919, AL133289, AC005783, AC011311, AC005288, X06123, AF116536, AC007324, U67825, AC005599, AC008101, AC004686, AP000156, AC016025, Z86090, AC005242, AL022476, AC004386, AC006042, AC005383, AL008728, AP001037, U67221, Y09781, AC008079, Z86061, AC009227, AL031589, AC007099, AF126531, AL035079, AC004643, AF207550, AC005923, AC005670, AF015153, AC007043, U35114, AC007073, AF010238, and AC004966. AA947547, F26152, AA502103, AA450199, N43757, AW192154, AI049634, AA365347, AI921649, AA593060, M86058, N70648, AI434706, AA513999, AI358343, AI376100, N71557,

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HMWEN61	8125	1 - 318	15 - 332	AA255655.
HMWEL56	8126	1 - 250	15 - 264	AA909291, AI808906, AW292487, AA828414, AA811421, AA486892, AI282535, AA419482, AI571878, AA436479, and AF020313.
HMWEI53	8127	1 - 192	15 - 206	N51780, AW407881, AI160515, AA400967, and D87447.
HMWEA91	8128	1 - 527	15 - 541	H82464.
HMWEA10	8129	1 - 574	15 - 588	N34786, AI806471, AA570657, AA234475, AA738273, R70183, AA234112, R71398, and AI927958.
HMWDZ25	8130	1 - 213	15 - 227	AI378834, AA232793, and AA232649.
HMWDR15	8131	1 - 404	15 - 418	T83764.
HMWDP06	8132	1 - 174	15 - 188	T06969, R27224, and AB028962.
HMWDN60	8133	1 - 363	15 - 377	
HMWDH55	8134	1 - 435	15 - 449	W84769, AW136382, AA009763, and AC004522.
HMWCT43	8135	1 - 471	15 - 485	T81746.
HMWCR88	8136	1 - 326	15 - 340	N94798, and N94764.
HMWCH47	8137	1 - 356	15 - 370	R11783.
HMWCH04	8138	1 - 602	15 - 616	N40606, N29201, H96518, N27833, AI925321, AI926681, AI860677, AI244758, AW272794, AA984191, AA826144, AI886060, AL044590, AI886365, AA987962, AA528441, AL039187, W90237, AI090334, R54896, AI079423, C16699, AL046746, AI954525, AA181773, AA206807, R59567, AI446601, AA507837, AW024210, AW152611, AA769114, AI305258, AW075915, AA729264, AL038936, F32893, AA832130, AL038909, AI471418, AI073888, AA196390,

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HMWCG38	8139	851630	1 - 598	15 - 612	N58418, AA034158, W74493, AW006009, AA015719, AA780267, AI445745, AI056261, W79090, AA400216, N78008, AI937396, AI191881, W73497, W23486, W67606, AI564573, AI374806, AA293838, AI097007, T95431, AA603085, AW295073, AA127181, AI122613, N26542, H84552, N39425, H55969, AI697129, T78468, AI090556, AA564396, AA748523, AI268509, N64022, AI168016, AI080325, AA053402, N48541, AA694390, AA651930, AA400127, W67558, AI268614, AI369805, AA450021, W69403, AI261755, T78545, N95084, AA618523, AA772633, R10577, AA327219, AA211289, AA302701, AA705259, R19400, AI924654, N73360, AA280628, R11610, AA846680, AW265361, R10576, AW023512, AI000971, C15592, R57045, AI085385, AA767586, AA830670, AA843900, AI817930, AA648329, AI143166, AA625706, AW385518, AA744945, AA383319, N89865, AI219903, AA403263, AA890669, N28373, AI091949, AI458483, AI299215, AA865342, AI052655, AA227192, N90503, AI041241, AA890424, AA056457, AI865626, AW265454, N53860, AI708757, H55970, AI547137, AI541216, AI535787, and AJ132931.
HMWBZ89	8140	787111	1 - 357	15 - 371	H49239.
HMWBT59	8141	893995	1 - 274	15 - 288	AA368664, AL043880, R62399, AA523876, AI915189, W05294, AA423981, AW339362, AI056132, AI873659, AI636417, AI812097, AI274942, AI349372, AA922395, AI168791, AW083986, AI266219, AI859189, AW194157, AI683304, AI199896, AI269181, AI625514, AI199890, AW130160, AA128362, AI338926, AI288535, AI339682, AA114897, AI091057, AI671452, W90768, AA810411, AA114896, AA137033, AA528033, AI743815, AW005102, AA523117, H48227, AI886641, R38443, F05074, AI680503, AA938005, AI862000, AW204921, R62400, AI305176, W90701, AI990810, F08811, H79690, AI023431, F04534, and T05279.
HMWBT05	8142	932558	1 - 461	15 - 475	N20587, AA225583, AI391633, N28979, AI620540, AI601267, H24714, T49309, AA225604, AA987298, U73643, AL136842, X57796, and AB016226.
HMWBI77	8143	888862	1 - 533	15 - 547	
HMWBI40	8144	712730	1 - 603	15 - 617	T80378.
HMWBH29	8145	927321	1 - 625	15 - 639	T74339, AA007592, W90626, AA680304, AA954254, AI133697, W60511, AA007389, AA767198, AA143074, AA987383, AA313708, F12509, Z44513, W90249, AA827641, AI141189, AA401334, AA747585, F25999, AA575866, AA313726, F22587, AA730678, AA664969, F33617,

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HMWBG16	8146	859404	1 - 200	15 - 214	AA398006, and AI650862.
HMWBB42	8147	714114	1 - 484	15 - 498	R11451, and AA018329.
HMWAJ04	8148	586507	1 - 740	15 - 754	AA558616, AA578017, AA558697, AA578251, AI053465, D29241, AA649705, AA595825, AA810370, AA127636, AA713922, AA523815, AA304977, AA346575, AA970213, AA451990, AA557970, AA341336, AA336362, AA574110, AA649722, AA483731, AA973803, AA515435, AA719080, AA078691, AA644207, AA446657, AA524838, AA559290, AI446638, N52544, AA077817, AA259186, AA161083, AA484670, T49241, AI205126, T16056, AL046457, AA487858, AA280632, R83443, AA461233, AA804379, AA720691, AA670468, AA503473, AA634145, AA847984, W56203, AI355238, R29012, AA678772, AA602528, AA876314, AA626747, AA513972, R95704, AA134959, AW083402, AA582911, AA480790, AA663486, AA522942, T15897, AA584751, AA873560, AI890918, R97634, AA605032, AA721615, AA996214, W05364, AA215474, AA845843, AA988259, AI471481, AA721981, AA252263, T10560, AA578349, T03722, AA437161, AA233519, AI037914, AA910125, AA078537, AA450089, AI041499, C14793, AA678443, AA559305, AI284640, T36219, H64778, T08438, AA678499, AA308806, N55273, H10994, AA330380, AA613421, AA350859, AA826793, AA209164, F19258, AA644551, T86755, AA196796, AA838096, AA525824, AA325699, R38154, AA834622, T54108, AA630606, AA780797, AA516527, AA486885, AA491284, AA102006, AA358321, AA703707, AA525876, N46153, AA194761, W80462, AA525249, F23249, AA551201, AA806796, AA323749, AA788858, AA527958, AA825455, AA665021, AA521355, AA533092, AA586562, AA167643, AW167267, M77899, T94075, F36273, AA492166, AA134347, AA206935, AA059472, F35659, AI567577, AA578141, AA525151, AA572713, F01658, F01141, AA552885, AA550758, AW236342, AA601222, AA837718, AI023082, AA593359, AA095511, AI648558, AA810269, AA357552, AA714055, AA491437, AA342901, T71030, AA650271, N69316, AA749274, AW088058, F10081, F29989, AA523020, AA302963,

Code	SEQ ID	cDNA			Accessions
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HMVDZ11	8149				
HMVDV55	8150	966351	1 - 530	15 - 544	R83823, and AA157678.
HMVDQ02	8151	811616	1 - 397	15 - 411	R56378, H05003, and R83285.
HMVDL45	8152	919057	1 - 342	15 - 356	AA663501, AA862536, AW265642, and AW275747.
HMVDJ60	8153	717384	1 - 827	15 - 841	H09382, R17471, Z44450, and F07290.
		877124	1 - 774	15 - 788	N46872, AA046610, AI589041, AI638264, AI888302, AW206234, AW135977, AI580058,

HMVDE10	8154	1 - 730	15 - 744	AI657127, AW002540, AI660025, AI623109, AI381671, AW150855, AW206029, AW205466, AI973077, AI973087, and AI675515.
HMVCY89	8155	1 - 504	15 - 518	AA460638.
HMVCY14	8156	1 - 461	15 - 475	R11102, R11103, H47988, H81110, R11125, and AC005611.
HMVCG26	8157	1 - 354	15 - 368	T96219, T79232, T96458, AF157101, and AF025884.
HMVBY77	8158	1 - 563	15 - 577	R25770, AA249108, AI741586, and AC002519. T65331, F11774, F11773, AI364568, AA557911, R17490, AA196160, R10144, T60316, AA493829, AA150013, AA806789, AW151637, AW151645, AW151646, AI139971, AW249468, AA714190, AI624666, H81732, T56025, AI567148, AA363957, AA226679, AA484191, AI678754, AI360630, AI281401, AA515440, N63891, AI538106, AI273990, AI933478, AA434078, W67486, AA565319, AW023515, AI242432, AI242531, W87421, AI814959, W67485, T93105, AI689198, AA516058, AA599080, F25580, AA525332, AII49238, AA581317, AI300054, AW236163, AI823533, AI823535, R51582, AI933486, AA837325, AI421723, AA601265, T64444, AW084431, AA584635, H53189, AL119156, R92658, AL119182, T05617, AA361513, AA742764, AI254463, AI252005, AA564682, AW028834, AA601673, AL038977, AI299192, AI909229, AA613850, AA586433, AI869786, AI891075, AW058223, AA159006, AC006479, AC004859, AC004921, S68013, AC005531, AL008719, AL021528, AC006509, AC007738, AF001550, AC005217, AB023050, AF035968, AC000037, AC000032, AC004671, AC004491, AC007868, AL031005, AC004914, AC005609, AC005903, AC005327, AP000499, AB026898, AC012085, AL133163, AL049766, AC003689, AL031584, AC002347, Z84572, AP000556, AP000552, AL132987, AC006960, AL078581, AC005216, AF003529, AC004477, AC006006, AL035423, AC000035, AB020865, AL031276, AC004692, AL031230, AC000025, AC005527, AC008134, AC007917, AC005529, M76423, AC005952, AC004472, AL049631, AL121757, AC008372, AL049795, AL032821, AC005669, Z68284, AC007955, AL133238, AL049832, AC003690, Z92546, AP000010, AP000151, AL022162, AL135783, AL008630, AL023799, Z49866, AC004054, AL117355, AC007386, AC006121, AC005280, AL049776, AL031602, AP000245, Z69890, AC006541, AC005391, Z99297, AL096817, AC003983, AC005208, AC004000, AL022396, AC005484, Z97054, AC007384, AC009731, AC005821, AC005730, AL021939, AD000864, AF024533, Z83838, AL031985, AL049697, AC005088, AC000065, AL050341, AL031735, AL133245, AC007065, AC006312, AL109827, AC007025, AC005694, AP000171, AC004217, AL034402, AC006454, AL022241, AL117338, U72790, AC006020, AC004262, Z82901, AC004736, Z97181, AL121595, AC007276, AL021391, AC002476, Z54146, AP000298, AC005513, AF039907, AL023694, Z82190, AC004764, AC005255, AP000112, AP000044, AL109623, AL078604, AC002039, AC003015, AL021940, AC004912, AC005094, AC005089, AF134726, D84394, AC004805, AL135744, AP000689, AL022320, AL022318, AL023876, AC007285, Z81364, AC007314, AP000282, AP001054, AC005081, AC007731, Z99716, AC004616, AL078638, U95090, AC005841, AL021368, Z83839, AC006116, AC018633,

HMVBV16	8159	661692	1 - 584	15 - 598	AP000264, AP000279, AC006237, AP000130, AP000208, and AP000247.
HMVBU89	8160	786118	1 - 440	15 - 454	AA195746, AW292535, W88512, AI916149, and AA765346.
HMVBO83	8161	780366	1 - 870	15 - 884	R18969, and AA491495.
HMVBJ91	8162	790025	1 - 506	15 - 520	AA028167, AI700675, AA035731, AI051312, AW207134, AI377083, and AI914607.
HMVBF52	8163	726546	1 - 435	15 - 449	AA973466, and R31969.
HMVBF44	8164	716410	1 - 372	15 - 386	W39569, AI638849, AI038503, W44924, AI203113, and AI864025.
HMVAT54	8165	888180	1 - 695	15 - 709	AA676928, and W86985. AI199183, AI799706, AI524226, AI658678, AI619916, H17863, AI679819, AA767653, AI567123, AI679243, AA993496, AI249113, AA846599, AI290066, AW168928, AA421148, AW001228, AI923054, W89146, AI358091, AA599007, AA969775, AA564967, AI696808, AI805502, C14005, F10215, AI860759, AA058367, AA705404, AA593588, AA581976, AI889279, AA700339, AI884486, AA350860, AI554646, AA447998, AI003564, AI860478, AI804832, AA206837, AW169777, AA887749, AI866503, AW193525, AA576924, T89112, AI277898, AW295179, H61752, AI214409, AA581255, T61678, AI701266, AA715116, AW067953, AA887759, AW188721, AA523949, AA652622, AA527474, T53110, AA402926, AW087438, W35420, AA206937, T49466, AA570117, T73430, AA548627, AI884326, AA448141, AA773851, H29750, and T53109.
HMVAT52	8166	726515	1 - 432	15 - 446	H13903.
HMVAP56	8167	732985	1 - 501	15 - 515	AA128982, AI149641, AI962865, AI871879, AI346313, AI024604, AA743300, AA293701, AA292933, AI470661, R40595, AW303434, AA833709, and AW005730.
HMVAF71	8168	761400	1 - 364	15 - 378	R59687.
HMVAF52	8169	861210	1 - 439	15 - 453	R53772.
HMVAC67	8170	751600	1 - 797	15 - 811	N72471, T80710, and AC009320.
HMSPH53	8171	861245	1 - 406	15 - 420	AA635986.
HMSPE04	8172	926800	1 - 788	15 - 802	AI056701, W60140, N36147, AI478510, AA181306, AA187045, C14014, T74524, AA828045, AA127426, AA487209, AI923052, AI356440, H07953, AA298365, AI254779, AA477503, AA757426, AW275498, AW438539, AA809546, AW084445, AI753092, AA657835, AA613630, AI051037, AW302711, AA581525, AA525823, AA879053, AI890324, T96582, AA593828, H51061, AI583106, AI377161, AI345891, AA164891, AA484892, F23338, AA745383, AI355103, AA074143, AA375133, AI311276, AA701080, AC008038, U85195, AE000658, AC005921, AC009247, AP000115, AC006953, AC006057, U91326, AC005231, AC004531, AC003982, AC007371, AC005180, Z94802, AL078621, AL121655, AC004217, D00591, AC006312, AC005399, AC002056, AC004447, AC002550, AC005722, AF002223, AC004962, AC004890, AL135960, AJ131016, AL022476, AL109798, Z84466, AC005288, AC004216, AL024498, AC005081, AC000082, AC007228, AC007308, AL133163, AL050332, AL050348, AC004158, AC004817, AC002544, AC006211, AC002470, AP000032, AF015262, AL022322, AC004491,

HMSPA30	8173	1 - 491	15 - 505	AL031283, AC007666, AP000517, AC006001, AL049643, AC007565, AC005924, AJ229043, AC005071, AC003684, AC005156, AC007066, L44140, AC004814, AC005696, AC007546, Z15025, AC020663, AC007068, AC005280, AC007790, AC004656, AC007242, AP000503, AC002350, AF196779, AC004985, AC003080, AC006079, AL135744, Z95114, AC005565, AL035587, U91318, AL121769, AC007539, AC004638, AC002115, AL121576, AC007363, AC004895, AC005207, AC005920, AL049776, AL080243, AL109628, AB017602, AC006316, AL035405, AL049697, AC005730, AD000092, AC004778, Z83844, AC003663, AC003661, AF129756, AC005726, AC003665, AC004492, AC004150, AC006996, AP000504, AL022326, Z83840, AC003098, AC005229, AC006561, AC005884, AF134726, Z93017, AF006501, AL121653, AL035652, AC005306, AL133371, AC004139, AC002524, AP000047, AC002985, AC005189, AC000003, AC005500, AP000114, AP000557, AF015416, AP000512, Z98052, AC006449, AC009516, AP000167, AP000052, AP000120, AP000046, AP000313, AC002400, AC003101, AP001061, AL109865, AC005015, AC004033, AC007731, AL031276, Z85987, AC005808, AL049760, AL109952, AC005027, AB023049, AP000194, Z82208, AC007842, AL022333, AL049832, AC005790, AL033527, AL139054, AC005037, AC005839, AP000505, AL034429, AC004841, AC002398, AC002316, AC005933, AC005484, AL031664, AF064866, X76498, AC005088, AP000348, AF003528, U67812, AL035089, Z74617, AC004477, AC005486, AC004819, Y14768, AP000555, AF031078, AC000052, AL034351, AC006387, AL035455, U62317, AF024533, AC005004, AC009721, AC000052, AL023553, AC005484, AC007050, AC004821, AC006146, Z46936, AC004999, AP000050, AF118808, AC004922, AC005058, AC005031, AC004019, Z95115, AL049779, AC006960, AF118808, AC004922, AC005058, AC005031, AC004019, Z95115, U80017, AL024507, AP000501, and AI471207.
HMSOO28	8174	1 - 460	15 - 474	AA005143.
HMSOJ88	8175	1 - 588	15 - 602	AI890285, AA853569, D87435, and AF068755. AA179756, AC007842, and AC006312.
HMSOJ01	8176	1 - 779	15 - 793	AA449866, H64299, AA760923, AI243157, AI537197, AA807264, AA810059, AA490995, AI186126, AA810429, AW188231, AI917502, AI076044, AW016048, AA131996, AA724113, AA131830, AA741064, AA737445, and AB020677.
HMSOH03	8177	1 - 743	15 - 757	R60302, F06228, R18381, AW378532, AA635310, AC004851, AC005529, AC004887, AC004813, AL022319, Z84484, AC002115, AL022316, AC007842, AC004874, AC004967, AL031428, Z77249, Z95116, AL034429, AC005015, AC005594, AC003041, AP000071, AC006388, AC010209, AC004216, AC003101, AC005527, AL121825, AC004794, AC005592, AC007425, AC005251, AC010206, AC008119, U91321, AL049576, AC006536, AL049631, AC002312, AC004526, AC004223, AC005041, AL020997, AC006241, AC000379, AC004859, and AC004913.
HMSNP06	8178	1 - 424	15 - 438	AI362898, and AB007866.
HMSNG04	8179	1 - 418	15 - 432	F23240, and F34475.

HMSMY10	8180	963431	1 - 418	15 - 432	AA694078, and T85377.
HMSMW91	8181	861336	1 - 117	15 - 131	AA677723, and AA376375.
HMSMW64	8182	861338	1 - 710	15 - 724	AA489878, AA773463, AA828637, AA613232, AA626040, AI580250, AA640710, AI932599, AA507822, AA559241, AI912401, AI933714, AI457389, AA633798, AA502683, AA515048, AA535216, AA157845, AI500453, AA714282, AW073510, AA581247, AI350211, AA146595, AA832145, AA146578, AA760808, AI022554, AI439910, AA837035, AW302013, AI783911, AI570943, AW090144, AL044471, AA044471, AA452887, AA410828, AI056177, AA493226, AA501794, AI434695, AA847499, F08248, AA487726, AA564779, AA548040, AI524360, C15363, AI216151, AA779783, N58329, AW193265, AW275719, AL043105, AW021583, AA877992, AL048925, AI347810, AA228778, AW265735, AI471572, AA580808, AI017251, AI554471, N71033, AI244127, AA515133, AA229912, AI471691, N72524, H58354, AA405493, AA651639, AI923052, N95817, AW069769, AA630854, AW338179, AW438643, AA862243, AI002734, N64587, AI620585, AI561116, H07953, AI270476, AA666295, AI382825, AI004591, AA489806, AA302973, AA084609, AA410788, AI888468, AA749235, AA613627, AA532700, AL079734, AA904275, AA262752, AI674840, AA586661, H85792, AA491814, AA496927, AI580707, AI915293, AI355803, N22037, AA908431, C14967, AI284640, AI252506, AI356440, AI805535, AI805350, AA806796, AI186438, AA302327, AA491955, AA464739, AA569471, W02403, AW272294, AW163763, AA721158, AA658362, AI377413, AA488746, AI049643, AC000003, AC005763, AL035422, AC004967, AC005225, AC005619, AC010205, AC005409, AC004491, AL080243, AP000512, AC004963, AC005399, U91323, AC005808, AC005531, AC006276, AL109801, U78027, AC004585, AP000501, AC006449, AC010170, AC007546, AC002558, AL035587, AP000513, AC004209, AC007193, AC002319, AC005069, AP000510, AL049869, AC004598, U73636, Z97054, AL034420, AC003108, AC002350, AL031291, AC006275, AL133448, AC005274, AC004913, AC003030, AC007308, AC005305, Z82206, AC005330, AC004878, AL117354, AC004832, AC005175, AL035398, AC005412, AB014077, AC002369, AL049699, AP000236, AC007151, AC005231, Z98051, AC002425, AC004655, AC004774, AL031311, AL121658, AD000092, AL031848, AC000134, AL031427, AL049576, AL079340, AL008635, AC002996, U62292, AC004228, AL109847, AC005740, AC005919, Z93023, AC007226, AP000173, AC004686, AC004590, AC005914, AC004876, AL034553, AC007993, AL008582, AC004382, AC002492, AL022312, AC007227, AC004149, AC006023, AC005971, AF045555, AF045533, AC005200, U91326, AC004099, U63721, AC006121, Y18000, AC005067, AL031685, AL031283, AL034429, AL023575, AL022165, AC006317, AL109984, AL109798, AC005253, AC007030, AL049776, AC004859, AC007565, AC007036, AC007229, AC006285, AP000091, AC002351, AC005736, AL031186, Z95115, Z83826, AC005512, AL079333, AC002395, AC005952, AF107257, AF111169, AC007792, AL035462, AC007435, AL049569, AC005086, AP000289, AC006430, AC007055, AL049540, U85195, AB023049, AF038458, AC004447,

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HMSMO59	8183	861341	1 - 595	15 - 609	AA132854, and AA132760.
HMSMN71	8184	927097	1 - 635	15 - 649	AI114712, C06057, AA873553, AW439714, AA488984, AA758246, AI379212, AI038707, AI565960, AA313336, AI039448, N70571, N24921, W04529, AA648488, AA576689, AA857397, AA452806, AA016215, AA843067, AA021506, AA834369, AA946685, R74086, R47997, AA887520, Z17365, AA450285, AA037649, AA805193, R53996, AA749374, AA736873, AA865979, AA932132, M85870, AA515596, AA936679, AA716202, AF176069, AF177345, and AF177346.
HMSMN26	8185	861345	1 - 489	15 - 503	W01688, AW271556, T92856, AL008627, AC005295, AC003109, AC005003, and AL133485.
HMSLH07	8186	953390	1 - 168	15 - 182	AA483479.
HMSKQ08	8187	861372	1 - 513	15 - 527	
HMSKH24	8188	495770	1 - 562	15 - 576	
HMSJX84	8189	783032	1 - 484	15 - 498	H10256, T16964, and F07075.
HMSJW48	8190	852496	1 - 2155	15 - 2169	AA411943, AW195769, AL020989, AL034451, AC004129, AL109956, AC003001, AC006143, Z99571, Z83841, AL033397, AL109733, AL031779, AC006924, Z96811, AL049859, Z78022, and Z83822.
HMSJU80	8191	775416	1 - 546	15 - 560	T87122, T77586, and W03662.
HMSJQ40	8192	954003	1 - 380	15 - 394	N21479, AA133872, AI167354, AA129368, N74537, W56424, H99653, AA297666, AW341978, AA365042, AI473995, AL038842, AA503298, AI073373, N57365, AI561060, AA833896, AA833875, AA832444, AA765925, AA482953, AW020150, AA136122, AW070892, AA503119, AC008041, Z82203, AC007285, AC007542, AC005529, AL049557, AF207550, AC005081, AP000497, AC006312, AC005015, AC004859, AC006441, AL049758, AC005971, AL049709, AF196779, AL080243, AL021707, AC005037, Z84484, AC002477, AL031005, AC005914, AC004929, Z98304, AP000692, AL121603, AC003689, AC002312, U47924, AL021394, AL049843, AC004938, AF109907, AC005519, AL049832, AC003982, AC005527, AC006210, AF111168, AC006101, AC006120, AC006013, Z98946, AP000510, AF111169, Z84469,

HMSJO72	8193		1 - 256	15 - 270	AC004953, AC005479, AC005358, AC012599, Z83856, AP000255, AL022316, AC005565, Z95114, AL035086, AC005800, AC007151, AL031985, AC004890, AC005696, AL049867, AC006023, AC004019, AL022320, AF205588, AC006512, Z95331, AC005480, AC005944, AC005736, AC009247, AC005829, AC005412, Z84466, Z82244, AL132712, AL031846, AL050318, AC007425, AC004966, AC004000, AC007066, AP000213, AR036572, AC004638, AL031230, AL049869, AC007041, L78810, AC007993, AL035072, AC006538, AC007630, AL009181, AL035681, AC007868, AC002430, AP000135, Z84487, U95740, AL133353, AC004673, AC004491, AC002126, AL021917, AF165926, AC000025, AC003003, AL049764, AL139054, AC016025, AC005071, AC007384, AC004448, AL020996, AC005924, AL031311, AC004913, Z93017, AC005500, AL049539, AC003071, AP000031, Z75888, AL031321, AC002073, AC005280, U91328, AL022336, AC004983, AC005899, AP000103, AF200465, AP001172, AL024509, AL034420, Z84480, AL031680, AC007386, AC005288, AL035420, AL133448, AC005520, AP000065, AC005726, AC003043, AL035458, AC004882, AF038458, AC004381, U85195, Z80232, AC008040, U62293, AF053356, Z98048, AL022323, AL049757, AC005409, AC004383, AL021578, AC009516, AC004534, AC004447, AC006277, AC002544, AC006071, AL121769, AL022313, AD000092, AF042484, AC004921, AC007731, AC005859, AC005355, AC004883, AL031255, AC003002, AC004771, AC005291, AP000553, AL023553, AC004223, AC005231, AL049829, X69908, AC004878, AC005516, AC005776, AC006262, Z83844, AC007308, AC006211, AC005180, AF196971, Z75887, AC007199, AE000658, AC006088, Z98200, and AL031584.
HMSJO43	8194	465884	1 - 50	15 - 64	R10535, and AP000555.
HMSJM02	8195	715274	1 - 1079	15 - 1093	AA191493, AA190859, Z25142, AA063296, and AA190753.
HMSJL53	8196	920070	1 - 420	15 - 434	AC003046, and AC005859.
HMSJI22	8197	921263	1 - 569	15 - 583	U46128, A30438, I25947, L40401, and AR040601.
HMSJI78	8198	495774	1 - 461	15 - 475	AA190926, and AA731652.
HMSJD56	8199	772846	1 - 454	15 - 468	AA286875.
HMSIZ49	8200	868168	1 - 633	15 - 647	AW360811, AW177440, T03269, AW377672, AW375406, AW179328, AW366296, AW375405, AW378534, AW360817, AW360844, AW179332, AW179023, AW178905, AW178893, AW177731, AW352171, AW378532, AW377671, AW177501, AW177511, AW352174, AW179024, D58283, C14389, AW179020, D59859, D80022, C14331, D80166, D80195, AW352158, D80193, D59927, D59467, D51423, D59619, AW178775, D80210, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80043, D59787, D80227, D59502, AW377676, D81030, AW352170, AW178907, AW178908, AW360841, AW179019, D80212, D80196, D80188, D80219, AW176467, AW177505, C15076, D80269, D80045, D57483, AW177722, D80366, AW369651, AA305409, C14429, D81026, D50979, D59889, AW178754, D80024, AW178909, AW177456, D51250, AW179004, AW179329, AW378528,

Clone	No.	Region 1	Region 2	Accession Numbers
HMSIW04	8201	1 - 815	15 - 829	D59610, AA305578, AW177733, AW179018, D80378, D51022, C14014, AW178980, AA514188, D51060, D80248, D80522, AW378525, AW352117, AW178911, D80241, D80251, AA514186, D80133, AW178906, AW352163, AW178914, AW367967, AW177728, AW378543, AI910186, C75259, AW178983, T48593, AW360834, AW178781, AI905856, AW177723, D80268, D80302, AW378540, D80439, C05695, D80247, D80134, AW352120, D80132, D51097, D58253, D51103, AW178986, AW177734, AW367950, D80157, D51759, F13647, T11417, AW378533, C14227, D81111, D80064, C06015, D58246, D45260, D59503, AW378542, AW378539, D58101, AW360855, C03092, AA514184, H67854, AA285331, H67866, AA809122, AI525923, Z17814, AI557751, AI535850, T03116, AI525917, D59317, D80258, D80314, D80014, AI557774, AI525920, AI535686, AI535959, AI525227, AI525913, AI525925, D89785, X67155, A67220, D26022, AR018138, A25909, A78862, A84916, A62300, A62298, Y17188, D34614, AJ132110, AB028859, AR008278, Y12724, AF058696, D88547, X82626, A94995, I50126, I50132, A26615, AR052274, I50128, I50133, AR008443, AR016514, AR025207, AR060138, AR066488, A45456, Y09669, A82595, A30438, A43192, A43190, AR038669, AR060385, AB002449, AR066490, AR066487, I18367, D50010, AB012117, A70867, A63261, Y17187, X68127, AR008408, AR062872, A85396, AR066482, AR016691, AR016690, U46128, A44171, AR060133, D13509, A85477, A64136, A68321, D88507, I19525, A86792, X93549, I14842, AR054175, AF123263, AR032065, AJ000347, and AR008382.
HMSIU74	8202	1 - 365	15 - 379	N62914.
HMSIT32	8203	1 - 506	15 - 520	H86211, and H63108.
HMSIT28	8204	1 - 326	15 - 340	N50056, and AA578534.
HMSIP20	8205	1 - 339	15 - 353	T15530, and H14968.
HMSIP02	8206	1 - 390	15 - 404	T63454.
HMSIK04	8207	1 - 339	15 - 353	AI086180.
HMSIB06	8208	1 - 1310	15 - 1324	AA252623, AA282769, AW169739, AI167434, AI038266, AI240380, AI608954, and AA602286.
HMSHV11	8209	1 - 324	15 - 338	AA704174. AA506376, and T56128.
HMSHU68	8210	1 - 499	15 - 513	N98756, AW015695, AA600174, AA599043, AI816903, AI963142, AA744590, AI142122, AI077980, AA989061, C01589, AC006946, and AC005300.
HMSHU37	8211	1 - 265	15 - 279	AL031670, and AC004650.
HMSHT11	8212	1 - 503	15 - 517	T02871.
HMSHO45	8213	1 - 357	15 - 371	R84684.
HMSHJ09	8214	1 - 723	15 - 737	AA035379, AA035378, AI494330, H86195, AA056312, and R84260.
HMSHI61	8215	1 - 1336	15 - 1350	H39805, N78668, H85323, W15175, AA257077, H39806, AA059102, AA248862, AI608660, and AB007883.
HMSHG08	8216	1 - 383	15 - 397	H45658, AC010205, and AC005409.

HMSHG06	8217	935496	1 - 412	15 - 426	AI873505, and AA868211.
HMSHE81	8218	784966	1 - 418	15 - 432	AL047194, R30808, AA127970, R21308, W49550, H11154, AW059635, AA133838, T96201, AI346495, AA046957, R52207, AA338045, W20506, T79356, AA344786, AA063363, W37522, R60470, R35905, T31941, AA203250, W68832, AA776637, AA340352, T34581, T35500, AA075388, T34053, AA337298, T99002, R11376, T31786, Z45899, T35531, H93460, F12241, T72052, T65262, U46386, T35164, AA374730, AA374708, AA228152, N99666, R60632, N44853, W05464, W38978, AA171804, AW372268, T18906, AA094785, AA707543, R32548, R82030, AW372267, T40014, W16937, AW363301, AW392423, AW161265, R31331, AA093953, AA313024, AW352224, AF062483, AF034546, Z98742, AF062482, and AL078596.
HMSHE17	8219	662265	1 - 855	15 - 869	T79224, T79733, AI878808, AI878839, AW160501, W27440, D59610, AW361175, T03269, D80241, D80193, D59502, D59467, D58283, D80166, D80195, D59927, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80022, D80219, D59275, D81030, D57483, D80269, D80038, C14429, D59889, D59787, AW178893, D80366, D50979, D50995, D80164, D80024, D80378, D80045, D51250, C14331, C15076, C14389, C14014, AW378532, C75259, D51060, AW177440, AA305409, AW179328, AW178775, AI905856, AI910186, AW352158, D81026, D80134, AW177501, AW178762, AW177511, F13647, D51097, D51022, D58253, D80949, D80522, AW360811, AW176467, C14227, AW352117, AA285331, AA305578, D51079, D81111, D59695, AW375405, AW378540, AW179023, AW377671, AW179332, AW360834, D80251, D52291, AW366296, AW360844, AW179220, AW360817, D80248, AW375406, AW378534, AW377672, AW178905, AA514188, AW177731, AW177734, AW179024, AW179019, AW352171, AW377676, D80064, AW352170, AW179329, AW178907, AW179020, AA514186, D80133, AW177733, AW178906, AW179018, AW177505, AW360841, AW178909, AW177456, AW178980, AW378528, AW178908, AW178754, C05695, AW367967, D80268, AW179004, D80302, AW178914, AW378525, AW352174, AW178774, AW178911, AW378543, AW352163, AW177728, AI557751, D80014, AW352120, D80132, D80439, D80247, T03116, AW178781, T48593, AW178983, T11417, AW177723, AW367950, AW378539, D51103, D80157, D51759, AI557774, AW178986, D80258, C06015, D45260, AW177734, AW378533, D80314, AA033512, C03092, AA809122, AW378542, H67854, H67866, AW360855, AI525917, AI535850, Z17814, AI525923, D58246, D59317, C14975, AA514184, D59503, C14973, D51221, D59474, AI525920, AI535686, AI525913, D58101, C14046, AI525227, AI535959, C05763, AB020721, X67155, Y17188, A78862, A67220, D89785, A84916, A62300, A62298, AJ132110, D34614, D26022, A25909, D88547, X82626, AR025207, AR018138, AB012117, X68127, AF058696, Y12724, AR008278, A85396, AR066482, A44171, A85477, I19525, A86792, AB028859, X93549, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, Y09669, AF135125, A30438, AR066488, A82595, AR016514, AR060385, AR060138, A45456, AR066487, A26615, AR052274, A43192, A43190, AR038669, AB002449, D88507, AR066490, A70867, D50010, Y17187, I18367, AB033111, AR008408, A63261,

HMSHD80	8220	882700	1 - 1135	15 - 1149	
					AR064240, AR016691, AR016690, U46128, AR062872, D13509, A64136, A68321, I14842, AR054175, AR060133, AF123263, U87247, AR032065, AR008277, AR008281, AB023656, U79457, Z32749, and X93535.
					AL079812, AI679812, AW069510, AA631363, AA806796, AI802087, AA680243, AI732120, AI791227, AA846568, AI298710, AW079792, AA595782, AI580652, AW103758, AI589230, AA553666, AA453558, AI358343, AW276586, AW022379, AI859251, AI561060, AI499938, AA587604, AI144101, AI198376, AI754170, AI345518, AI370074, AI610159, AA488395, AW265009, AI370094, AI313166, AI439210, AW406162, AW069412, AI246409, AW265385, AW268973, AI567076, AW070892, AI718446, AI345654, AI821271, AA372478, AI754955, AI653636, AI358571, AA584752, AA630352, AW276817, AA302963, AI564454, AI471487, AI334464, AI344812, AI866964, R97780, AI628922, AI956131, AI798265, AA226715, AA542991, AA584145, AA702729, AA523843, AW075511, AA309841, AW020992, AA630925, AA491284, AA984708, AI345418, H71429, F36306, AA679672, AI421841, AI283911, AA563733, AA704393, AI287485, F29989, AI536834, AA133333, AI635274, AW168342, AW088202, AW338500, AI679045, AW327868, AA938105, AW406659, AI986165, AI367975, AA846876, AA059235, AA469451, AI951889, AA630362, AA525190, AL134972, AW407578, AW089322, AA508359, AA133406, AI635609, AA688130, AA654771, AI654247, AI866856, AA214342, AA864426, AL043144, AW407632, AI888518, AI216799, AI951928, AI828463, T08638, AL044858, AW304805, AA653618, AA827981, AI307608, AI301273, AI635279, AA601253, AA143516, AA101689, AL134439, T57119, T09071, AA483223, AA679936, T41242, AI732186, AL119691, AA579075, AA709005, AI246119, AA346458, AW302013, AW079135, AA496508, AA443390, N26226, AL037554, AL046898, AA381163, AI572924, AI334443, AA503475, AA478355, AI475569, AA156538, AI049634, W00807, AA598586, AI471691, AA503283, AA614070, T06783, AA837746, AA650376, AI087133, AI289447, AA531372, AA493708, AA148197, AI982525, AA533725, AA722048, AI471464, AA523838, AA502963, AA598425, AI284640, AA569214, AC005288, AL078463, AC005754, AC006312, Z99716, AL035681, AC005822, AF088219, AC004675, AC002091, AC005736, AC006064, AC002395, AC005399, AL049795, AC005231, AC007676, AC005209, AL121653, AL031311, AC004000, AL133448, AL022476, AC002350, U52112, AL080243, AC005924, AB000882, Z96074, AC006277, AC005527, L78810, AC004139, AL031680, AC006251, AC006120, AC004876, AC000353, AC002301, AC006241, AC002543, AL034548, AC005562, AL096791, AC004671, AC002040, AC005011, AC005520, AC005828, AC005215, U62317, AL035659, AL133371, AL021393, AC005694, AC005529, AL008718, AP000131, AP000209, AC000052, AL133246, AC007191, AP000248, Z95114, AP000359, AC005291, AC009516, Z99129, AC002073, AC004858, AC006057, AC005900, AC008079, AC005031, AP000506, AC004966, AC004236, AC018633, AL031255, AC010205, AF109907, AC002115, AL023803, AC006948, AF111168, AL109798, AC008040, AC007055, AL034420, AC007226, AC007919,

HMSHB81	8221	1 - 682	15 - 696	AC004181, AC007298, AC006965, AC004030, AC003101, AC004611, AC008372, AP000692, AL033525, AC006115, AC006449, AC005375, AL022238, AL117351, AC006130, AC004253, AF042090, AL035072, AC008124, AC007021, AP000555, AC009044, AL021918, AC005488, AC004933, AL049869, AL121655, AL049745, AC008039, AL121603, AP000704, U95742, AC005940, AL109984, AC006479, AC009247, AL136295, AL035079, AL031685, AL049540, AL031178, AC004814, AC005081, AP000008, AC004167, AL031597, AC004560, AC005620, AL024498, Z93020, U80017, AC005102, AC005514, AF196779, AC000085, AL031729, AL021407, AL021392, AL033521, AC006026, AC005531, AC007684, AL031005, AL022320, AL096774, AP000116, AC006273, AC004263, AC007686, AF124731, AL117694, X87344, AC007308, AC007899, AC006273, AC005664, AL008582, AP000161, AC005261, AC006547, AC005015, AP001054, AC007993, Z98257, AC003688, AC007731, AC002316, AP000503, AL031846, AL021154, AC002544, AC005829, AF207550, AC004036, AC006160, AC004262, AC007637, AL133353, AF111169, AC004686, AL031848, U91326, AC002425, AC002470, AE000658, U85195, AC006139, Z99127, AL031123, AC005180, AC007263, AL133245, AF064861, AC002365, AC016027, AL031276, AP000558, AC004783, AC007192, AC012384, Z98036, AL031281, AC007386, AL031432, AC004019, AC002347, AC007842, AL022322, AC004228, AC003684, AC006323, Z98946, AL031287, AL023807, AP000140, AC004152, AL031662, AL049713, AC004972, AL035249, AL035400, AC005500, AL050332, D86992, AC004912, AB023049, AC005341, AL078476, AC007666, AC002349, AL031230, AL022721, AC007216, Z97056, AL109827, Z98051, AC004531, AC009399, and AL022323.
HMSGX86	8222	1 - 310	15 - 324	W07507, N81144, C01673, and AC007298.
HMSGF56	8223	1 - 365	15 - 379	T87391, and R94130.
HMSGF54	8224	1 - 555	15 - 569	AA075407, and AA829024.
HMSGF51	8225	1 - 573	15 - 587	AI628560, AI628570, W52594, H15987, AA314350, AA081556, AA449562, W48833, AA340229, W19356, H16913, AA309056, R18554, AI460069, T80286, AA384328, AA318911, R12855, and AC006033.
HMSGD24	8226	1 - 416	15 - 430	N62538, and N62572.
HMSGC85	8227	1 - 825	15 - 839	AA585378, AI526112, AA585116, AA585325, AA585278, AA585389, AA585430, AA585329, AA283312, AA585439, AA585116, AA585098, AA585356, AI525306, AA585453, AA585420, AA585101, AA585327, AW366296, T26367, T48593, AI541402, D78224, D57491, T18597, C15406, R29657, AA585198, Z32887, D59751, C15069, Z32822, D53161, AA585155, AI526205, D54850, R45895, D61185, AA585351, AI526169, Z33559, D51433, AI557718, AI525316, AI541356, AI557262, AI541365, AI557864, D59458, AI526078, AI526146, Z36724, AI535660, D51413, AI525500, D50992, AI526016, AI526158, AI526140, AI546855, AI557740, AI535639, Z28355, AA486970, AI557809, AI557731, D54897, AI541535, AI546831, AI421391, AI541013, AI541492, AI541205, AI525556, AI557533, AI525168, AI557727, AI540903, AI546971, AI526187, AI536138,

HMSFY63	8228	745230	1 - 448	15 - 462	AI526184, AI526176, AI541517, AI557084, AI526117, AI557317, R28965, AI541516, AI557852, AI541515, AI541034, AI547250, AI557758, AI526191, AI557408, AR017826, AR031358, AR031365, AJ131952, AF135243, A85395, A85476, X82786, AB005666, AR037157, A25909, AR062871, AR008429, AR060134, A70872, X55499, A70869, A70899, A94995, X93517, AJ007320, Z79435, AR038669, A84774, A44281, I50122, U87250, AR068047, A84773, M60510, A84772, A84776, A84775, AR060137, AR060142, A91750, AF134119, AR029417, A83076, X84816, Z79475, A91667, A91666, U79666, A30438, AR028672, AR038855, AR050070, AB005559, A62298, A82595, A82593, U89315, AR060057, AJ009991, Y09668, I32384, AJ012010, AF213384, AF006072, U94592, L36913, U85196, AE000661, Z30183, Z31700, A44216, AL035462, and AC006515.
HMSFX73	8229	888326	1 - 170	15 - 184	W96346.
HMSFS08	8230	959773	1 - 408	15 - 422	AI016389.
HMSFR23	8231	919890	1 - 1974	15 - 1988	AA508809, AL038606, AA574442, AA879053, AI678785, AI244127, AI805607, H05940, AA904275, AW069227, AA610509, AA191418, AW271917, AW341978, AI537020, AI885572, AW299781, AI753113, AA635368, AI623764, AL048607, AA180775, AW157492, H80203, AI634187, AI625604, AI040051, AI270524, AI251576, AW089950, AW338370, AA225406, AW270256, AW068316, AI051037, AL040054, AI783911, AI559645, AI583466, AA720732, AI205181, AI590458, AW274191, AI306232, AI768952, AI270476, AI061313, AA601986, AA533176, AA749235, AA525253, AI457313, AI869786, AA634786, AI569510, AI635028, AW272294, AI634691, AA777986, AW419389, AA582554, AI431513, AI590499, AA657835, AW188662, AW157005, H53168, AC005694, AL034420, Z85987, AL031005, AC005527, AC005682, AC005940, AL050318, AL096791, AC006501, AC005736, Y18000, AC002310, AP000503, AC006449, AC002558, AC005972, AC002059, AC003029, AC008984, Z97054, AC009516, AC006468, AC005778, AL035683, AC007684, AC005500, AC002314, AL049694, AP000088, AL031311, AC004019, AC006285, AP000512, AL133448, AC002316, AL022316, AL121653, AL049553, AP000692, AL050332, AC005529, AP000359, AP000152, AC004253, AC007731, U47924, AC005520, AC002073, AL021397, AC005755, AC005041, AC004531, AL035413, AC003982, AC002073, AC005180, AC007919, AP000248, AC004112, AC000025, AP000133, AP000211, AL035079, AC007999, AC005231, AC005874, AF134471, AC000052, AC002470, U80017, AD000092, AC008012, AF207550, AC007055, AL096701, AC009247, Z98036, AL133355, AC005899, AC008012, AL031685, AC006211, AC002115, AP000555, AL050312, AL034555, AF200465, AF023049, AC007308, AC004477, AC006480, AC004985, AC004520, AF134726, AC007387, AB023049, AC002312, AC005102, AC005049, AC007371, AC004913, AP000553, AC003041, AL080243, AC002350, AC002301, AC002543, AP000502, AC002543, AC004865, AC004466, Z68870, AC005255, AL117258, AC005225, AL022721, AC006512, AC004526, Z86090, AC004832,

HMSFN08	8232	1 - 294	15 - 308	AC003684, AL049569, AF088219, AC005632, AC005620, AL031587, AL109759, AL022313, Z93244, AL049757, AC005484, AL020997, AC007666, AC000353, AL078581, AL035659, AC007263, AC004991, AC002477, AC004222, AC016025, Z94056, AB003151, AP000047, Z85986, Z68276, AC007688, AC018633, AC005971, AL021808, AC007216, AC004106, AC004750, AC007386, AL049636, AC006057, AC005568, Z98200, AC005295, AL008718, AF111168, AC004263, AL031283, AC004257, AC004890, AL035587, AF196969, AP001053, AC002352, AC004883, AF196779, AP000689, AC004596, AL049709, AC004382, Z84487, AC005993, AP000348, AC006064, AC004815, AC006132, AL031848, Z83822, AC004552, AC005920, AC004000, AC006430, AC007225, U91326, AC005747, AC007136, AC005670, AL021391, AC005703, U41384, AC005519, AC004929, AF111167, AC005280, AL121603, Z98742, Z95114, AL079342, AF045555, AC004804, AF187320, AF001549, AL035072, AC004817, AC005031, D84394, AC005288, AP000509, AL009181, AC006013, AL022165, AC005921, AL121655, AC002425, AC004812, AL008582, AP000245, AF205588, AC005300, AC002302, AC007227, AC006084, AL035458, AC005037, AL117338, L78810, AL109798, AL049759, AC006312, AC006023, AP000952, AC005969, Z82244, AP000065, Z93241, AC004598, AC004032, AC005480, and AC007774.
HMSEN68	8233	1 - 137	15 - 151	AI611315.
HMSEN13	8234	1 - 209	15 - 223	
HMSEN08	8235	1 - 530	15 - 544	T87975, T78968, H75882, AA186627, AA157874, AA155657, and AC005632.
HMSEM34	8236	1 - 352	15 - 366	H60137.
HMSEL64	8237	1 - 186	15 - 200	AA452398.
HMSEG67	8238	1 - 221	15 - 235	
HMSDQ15	8239	1 - 262	15 - 276	H48662.
HMSDL70	8240	1 - 417	15 - 431	AA937295, AA749017, AI961060, AW296060, AI560436, AW137661, AI952999, AA837074, H14097, AA058658, AA058632, D17577, AB023656, AF131865, and AF090190.
HMSDK10	8241	1 - 152	15 - 166	N56866.
HMSDI34	8242	1 - 315	15 - 329	
HMSDG12	8243	1 - 339	15 - 353	H51539, AI818853, AW008155, AI915439, AA113960, N25429, AI539019, AI090837, AI269976, AW183489, AA705828, AW028222, AI085311, AW057893, AW025905, AI817383, AA627364, AI807821, AI807831, AL134858, AA570019, and AC005786.
HMSDG04	8244	1 - 352	15 - 366	AA526542, H38817, R54896, H25626, AI174535, AA516247, R71981, AA641112, AA745524, AA744001, AA524616, AA506744, AA779667, AA744272, AA744455, AA745588, AI624990, AA743966, T34066, AA729470, F07193, AI683294, H97358, AA364869, AA804625, AA830910, AW246879, R91911, AW238325, AA700569, AW081359, AI863246, AW102955, AA035676, AA251117, AW062759, AI241637, R13151, AI123488, AI636306, AI024782, AI188049,

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HMSDB08	8245	1 - 611	960260	15 - 625	AI694133, and AC005661.
HMSDA81	8246	1 - 362	778469	15 - 376	AA846610, W32521, and AI089044.
HMSCY01	8247	1 - 387	921768	15 - 401	R86918.
HMSCW45	8248	1 - 274	723483	15 - 288	AI090721, R98008, AA992295, and AI024933.
HMSCT69	8249	1 - 462	855855	15 - 476	Z54334.
HMSCP73	8250	1 - 354	764703	15 - 368	AA213710.
HMSCO63	8251	1 - 431	855863	15 - 445	H80947, H54099, and AA513418.
HMSCD07	8252	1 - 314	954243	15 - 328	AA214194, and AL031709.
HMSBZ67	8253	1 - 473	973737	15 - 487	AC003091.
HMSBZ13	8254	1 - 436	855866	15 - 450	T93073, and AI826311.
HMSBY67	8255	1 - 464	752145	15 - 478	AA258700.
HMSBW54	8256	1 - 571	880721	15 - 585	AA280755.

HMSBU24	8257	1 - 757	15 - 771	T47576, T47577, and AF146689.
HMSBO95	8258	1 - 363	15 - 377	AA010247.
HMSBM92	8259	1 - 127	15 - 141	.
HMSBI82	8260	1 - 176	15 - 190	
HMSBI56	8261	1 - 71	15 - 85	AL122007.
HMSBH85	8262	1 - 448	15 - 462	H69907.
HMSBH08	8263	1 - 1311	15 - 1325	AW378532, AW089016, AA595661, AI123488, AL044701, AA493808, AI828721, AA507623, AA935827, R72363, AI355246, AW152439, AA584360, AW057760, AA654705, AA676592, AI453476, AI791659, AI733523, H71678, AI567676, AA493245, AI521525, AA425283, AA135761, AA640305, AA526643, AA829565, AI984168, N32081, AI434686, N29829, AI609984, R22196, AI350189, W04238, AA720582, AII59799, AI345566, AI697235, AW020150, AI860423, AI915081, AI242614, N27362, AA128511, AI434103, AA526542, AI697239, AI610012, AI583532, AA487209, AI697242, AI609974, AA631915, AI342863, AI086603, AA482682, AA577706, N23099, AA635135, N94115, AA640104, AI798493, N32080, AA747757, AA584183, AI280535, AA303002, AA807704, AIS37368, AA015948, AI791426, AI732473, AA525112, AI521042, N32094, AA297776, AW272606, AI682899, AI754064, AI679730, AW072963, AA832145, AA054055, AA613761, AA719564, AW380335, AA564591, D34614, AC007546, AP000688, AL008710, AL035413, AL109952, AL049631, AC007388, AC003108, AC000353, AC005305, AC005921, AC002430, AC007565, AC006011, AL049636, AC007384, AC003002, AC005516, Z84474, AL133246, AL031229, AC006121, AC004008, AC003962, Z93024, AC005003, AC005088, AC005619, AF109907, AL022326, AL022237, AL049872, AC007283, AC005839, Z93241, AC002544, AL031666, AC007421, AL031602, Z95116, Z95114, AF141309, AC004663, AC002310, AC005399, U78027, AL022322, AC009247, AL049743, AC007227, AC004662, AP001054, AC007207, AL035422, AF107045, D28126, AL022398, AL035462, AL049869, AL034451, AL031297, AC007151, AC002128, AL031681, AC005328, AC004408, AC004150, AC004699, AL031311, Z86090, AF024533, Z84469, AC005231, AC003043, AL022721, AL133163, AL133241, AP000049, AC003667, AL035684, AC000025, AC005015, AC004477, AC004099, AF060568, AC002316, I34294, Z92546, AP000311, AC005049, AC006505, AL121578, AC003112, AC007559, AC005527, AC001234, Z97054, AP000116, AC002549, AC004755, AC004893, AP000555, AC004009, AF196972, AL031782, AC006013, M63796, AC005082, Z93023, AC004887, AC004920, AC005913, Z73359, AL096701, U93305, AP000497, AC004491, AL034379, AF196779, AF207550, AC005255, AC002538, AL049757, AC004448, AC004973, AC007899, AC007536, AP000359, AP000689, AC006111, AP000353, AC006017, Z83844, AC002407, AC002039, AC006449, AC004814, AC005377, AC004079, AL117258, U07561, Z97353, AF184110, AC005971, AC007386, AL109627, AL096767, AC005754, AC005624, AC004893, AC005529, AP000233, AF134726, AC007057, AP000289, AP000147, AC006101, AC006236, AC005369, AP000350, AP000042,

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HMSBH07	8264	954457	1 - 448	15 - 462	AI225156, Z80896, and U51560.
HMSBF92	8265	582654	1 - 905	15 - 919	Z99774, AC007073, AP001051, AC007016, AP000014, AL009179, AL096772, AC002375, AC005347, AC006060, AC005279, AC008123, AL008710, AP000155, AL109620, AC005736, AC007240, Z82250, AC005905, and AC006167.
HMSBC31	8266	960021	1 - 552	15 - 566	R08621, R09445, T83341, R12764, AI868587, AW168691, R52828, R66453, AI572495, R26443, AI479182, AI745312, AW272841, AI376897, AI559339, AI818827, AI128920, AI818867, AA056017, AW243942, H98699, AI801490, AA599935, AI241017, AW023649, AI879926, AW264809, AI432465, AI022932, AI042229, AW294405, AI638167, AA563714, W46846, AI619816, AI453457, AI215121, AI373123, N63964, AI245268, AA972323, AA709398, AI122927, AI336525, AI273714, AA599488, AI862846, AI128566, AI950246, AW236025, D58140, AI951485, AI742100, AI913610, AI873481, AI479476, H47624, AI365294, AI610258, AI868878, AW192014, AI094370, AW295145, AA778934, AW303589, AI247403, AA947308, T90383, AI457642, R62344, AI346810, AA864840, N46424, AI655638, AW082317, AW305262, AW207683, AW084022, AI274053, AA490456, AI973108, W46841, Z40817, N20960, R91085, AW129403, H58229, N52900, AA034024, AI916541, C21345, AW152560, AA135710, AI913607, AA885112, C16453, R56284, and AI342372.
HMSBA43	8267	715699	1 - 364	15 - 378	H63639, and AA805570.
HMSAV84	8268	781872	1 - 405	15 - 419	H62879.
HMSAV65	8269	747792	1 - 393	15 - 407	AA524821, AA180370, AA083046, AA224525, AA181758, AA837677, AA526787, AA935988, AA493695, F36273, AI872020, AA757797, AA533303, AA580808, AA846953, AI584186, AL042213, AA653375, AI859742, AA477122, AI933534, AA551503, AI583283, AI243584, AA482806, AA632600, AA621596, AA782304, AI732547, AW075511, AW193265, F18619, AW168618, AA584167, C17734, AA992337, AI270117, AW438643, AI345654, AA834792, AA583898, AA847499, AA501821, AI908381, AA581903, AI350211, AI679782, AA483223, AA490183, AA715991, AA581076, AI049634, AA720702, AA935100, D58349, AL022329, AC009516, AC005089, AC006211, AC005412, AP000056, AP000171, AL132712, AL080243, AC005484, AP000330, AP000043, AC008115, AC004686, Z93930, AC005081, AC004491,

HMSAT76	8270	842065	1 - 623	15 - 637	AC006014, AL096701, AL049569, AL023494, AP000553, AC003109, AC005736, AL034549, AC005231, AC006001, AC005488, AC005280, AC005756, AC002365, AC004477, AP000344, AC004263, AL021878, AC006312, AC006032, AC004799, AL049759, AC004895, AL023575, AC004167, AL008725, AP000111, AL031846, AC031846, AC004935, AC005335, AC005829, AF139813, AC002470, AL133246, AC008372, AF109907, AC016025, AL031685, AC000353, AL117330, AC005071, AL031295, AC006449, AL021546, AL020995, AC005899, AC005783, AL022721, AC005914, Z98950, AP000065, AC004771, AL009179, AC004383, AC005520, AC005618, AC004858, AF047825, AC005031, AC005288, AL035249, AC005837, AL049779, AF091512, AD000092, AC004876, Z99716, AC006111, AC007690, AC008040, AC006050, AL121603, AC004953, AC005971, AL031733, AC006371, AL049766, AL035681, AC006241, AL133245, AC005088, AL031597, AC005746, AP000124, AL022722, AP000359, AL031276, AJ003147, AC005839, AL049709, AL009181, U80017, AC002565, AP000090, AC007899, AL022237, AL079340, AL049829, Z97056, AC003108, AC004671, AC002310, AF001549, AL135744, AC005529, AC007226, AC005069, AF196969, AL009172, AC004019, AC007151, AC007182, AC002404, AC005261, AL078463, AC006126, AL035460, AF196970, AL135960, AJ131016, AC007666, Z49236, AL050341, AC003030, AC007030, AC005332, AC006117, AP000556, AC004955, AC004975, AC006064, AP000347, AL035089, AC000070, AC002316, AC005037, AL022302, AC002312, AC005324, AC002476, AC005049, AC005225, AC007227, AC004638, AC004605, AC005632, AL031003, Z86061, AC002564, AC004970, AP000557, AC006116, AL022320, AC005578, AC005180, AC006317, AC008018, Z98941, AC007537, AL020997, AP000513, AP000552, AP000459, AL049694, AL031407, AC004149, AF024533, AC004253, AL031680, AL031662, AC006965, AC004841, AL096791, AL049776, AC005330, AL021707, AC010206, U91323, AF003626, AC007376, AC005015, AL035494, AC022517, AC005940, AC005565, AC006017, AC007376, AC005696, AC004783, AC000052, AC007919, AC002429, AC006480, AF055066, AC005920, Z86062, AC004231, AF031078, Z93017, AC006539, AC004797, AL022316, Z82244, AC002133, AC007934, AC000118, AC006441, AJ239322, AC005291, AC008009, AF217403, AL117344, AC007326, and AF196779.
HMSAQ95	8271	796728	1 - 381	15 - 395	AA906051, AI911368, AI809060, R37329, and AW292043.
HMSAQ58	8272	738495	1 - 346	15 - 360	AA054495, and AL078593.
HMSAP36	8273	518062	1 - 211	15 - 225	N36504, and W03426.
HMSAO42	8274	714316	1 - 174	15 - 188	AA678143.
HMSAH80	8275	781640	1 - 365	15 - 379	R09134, and AC004897.
HMQDV06	8276	936015	1 - 450	15 - 464	AI492018, AW444713, AI760623, AI347343, and AI917642.
HMQDQ42	8277	457221	1 - 344	15 - 358	T87271, AI356228, and AI683496.
HMQDL40	8278	711421	1 - 242	15 - 256	AI948473, W87704, AI610102, and AI831741.
HMQCZ36	8279	708066	1 - 372	15 - 386	R16464, T80874, and AC006559.

HMQCZ18	8280	1 - 459	15 - 473	R72937, AJ003337, AP001056, and AP001055.
HMQCX42	8281	1 - 431	15 - 445	R97476, T83110, T82131, and AB018341.
HMQCV29	8282	1 - 486	15 - 500	AW089880, R84393, AA976621, W73367, AI478491, AI081094, H43299, AW294792, AA378963, AW292636, AA378964, W69666, H66133, AI671768, AA701250, AA702739, AI985183, AW207720, AW292633, AW271763, AA256004, T47922, W45654, AA455850, AA704633, and AC020663.
HMQCN17	8283	1 - 384	15 - 398	AA190721, AA974701, and AA149317.
HMQCM46	8284	1 - 123	15 - 137	AI219699.
HMQCM41	8285	1 - 135	15 - 149	
HMQCM05	8286	1 - 180	15 - 194	
HMQCH69	8287	1 - 419	15 - 433	N47102, AW135582, AI700192, AI871529, and AW081758.
HMQCH54	8288	1 - 265	15 - 279	AA026069, and AA026070.
HMQCB03	8289	1 - 305	15 - 319	AW072495, AI560951, AI743233, AI583496, AI583807, AI310201, AI380351, AA928555, AI500421, C17500, AI339070, AI884995, AI197975, AI344492, AI884792, AA877126, AA233986, AI245590, AA442443, W57931, AI079317, AA143237, AA721704, AA304268, AI027135, AI252344, AI335498, AI312160, AI334907, AI307561, AI252601, AI345291, AI312354, AI344924, AI312953, AW074978, AI590450, AW075157, AW301942, AI312975, AW301956, AI583821, AI348908, AW302779, AI370101, F26488, AI340917, AI611858, AI318626, AI802845, AI053448, AI376475, AI344868, AI308315, AA570158, AI311886, AW268184, AI541347, AI612046, AI307429, AI250091, AI370083, AI308517, AI308028, AI309430, AI611379, AI307014, AW301798, AI250220, AI417297, AA862400, AA143295, AI749104, AI879450, AI362876, AA933040, AI609988, AI382677, AI541281, AA282746, H46464, AA340388, AA327360, F36474, and AL133448.
HMQBN40	8290	1 - 459	15 - 473	AA258747, AI347356, AW005871, AA639645, AI391658, AI379681, AI928095, AI819881, AA136079, AA557386, and Z79996.
HMPTA56	8291	1 - 356	15 - 370	AA359995, AA993757, AC006026, and Z61386.
HMPTA28	8292	1 - 290	15 - 304	AC006287.
HMPSC38	8293	1 - 331	15 - 345	R08653.
HMPBB84	8294	1 - 731	15 - 745	AA362237, and AA362238.
HMOAD90	8295	1 - 339	15 - 353	
HMOAD60	8296	1 - 228	15 - 242	
HMMCL96	8297	1 - 468	15 - 482	AW023589, and R00787.
HMMCI01	8298	1 - 329	15 - 343	AA835501.
HMMCH69	8299	1 - 313	15 - 327	T52346.
HMMCH09	8300	1 - 586	15 - 600	W01465, and AA259146.
HMMCD83	8301	1 - 438	15 - 452	AW168912, T57077, T57149, AA570710, W04964, and AI743980.

HMMCD23	8302	675720	1 - 499	15 - 513	R27937, and Z97054.
HMMCA11	8303	966677	1 - 448	15 - 462	AA677566.
HMMCA08	8304	958980	1 - 424	15 - 438	AA610438, AI571512, AW074207, AA652057, AA649642, N23649, AA125788, AA548702, AA733208, AA555260, T40617, AA095511, AW088058, AI554289, AA557879, N23874, AI246340, AI469166, AW069427, N73083, AA317656, AI038990, F03525, AW406447, N26061, AI281903, AA687182, AA576336, AA812139, AI914151, AI801482, AA338522, AA301813, AA181494, H37777, T07324, AA552856, W25284, AA653327, AA594725, AW339568, AI754658, AL119123, AI744827, AA832181, AA074458, AL134703, F34999, N70337, H63991, AA526193, AA629415, AW408063, AA629407, N53152, T06652, AA369477, AA317170, AL138242, AI708005, AA613345, AF087510, AF006501, AL031587, AL031133, AC005694, Y18000, AC005529, AL132712, AF007544, AL121577, U86136, AL109611, AC005375, AC016025, AC016026, AC006080, U55182, AL035685, AC005210, AL031228, AC006057, AC006505, AC005316, AC005994, AI049690, AC007227, AC005324, AC007450, AB016897, AL022238, Z82976, AL080242, AL023575, AL008583, AC004820, AC007226, AC004526, AP000073, AC005569, AC005364, AC004232, AC020663, AC002115, AC004408, U51559, U63313, AP000432, AL121782, Z95126, AI136504, AC006536, AC009498, U41384, AC004944, AL121580, AC005030, AL049839, AC005175, AL050343, AF003530, AP000153, AP000012, AL031577, AC008071, AL049636, AC004492, Z15025, Y14768, AP000505, AL096712, AF129756, AC005940, Z98946, AC005808, U95740, AC005520, AP000350, AC007461, AL049779, AL049776, AC003983, AC003102, AC006323, AC005726, Z68344, AC005785, AF091512, AC003103, AP000692, AL022578, AF154840, AL096765, Z84723, Z46773, AC005346, Z68756, AC005500, AC005872, AL049741, AC004752, U07563, AL022320, AL096776, AC005998, AL022163, AC005262, AL049741, AC003007, L78833, AC002310, AL109984, AC006543, and AL078474.
HMMBZ18	8305	666192	1 - 746	15 - 760	AA701580, AA701569, AA828646, AA776372, T87907, AA811226, R07726, R93731, AA761770, AI240497, T88001, R06363, R06362, R08543, and AA810943.
HMMBZ05	8306	566870	1 - 654	15 - 668	AA441997, AI885572, AW080811, AW166611, AI754658, AC005803, AC007436, AC007221, AC004905, AC004815, AC005225, AC006512, AC004616, AC004963, AF111169, AC002425, X75335, X54175, AC006948, X54181, AF196779, AC005784, X54178, AC006511, AC006023, AC005237, AC005067, M87919, AF207550, AL035072, AC004417, AC004858, AF109907, AC005988, Z97630, AC003688, AC007360, AC007546, AC005971, AC007899, AC002551, AC005521, AC007237, AC007731, AC007263, AC005500, AJ003147, Z68162, AC006160, AC007786, AC006255, AC002553, AF015148, AC005755, AC005288, AC005284, AL121653, AC006011, AC005531, AC009516, AL132712, AC006480, AL049780, AL034548, AL049709, AL022316, AF117829, AL136504, AC002558, AL009181, AL049839, AC002544, AC005399, AL133448, AL022302, AF117829, AC004253, AC006501, AC006312, AL133353, AL031311, AL022329, AC005759, AC004643, AC004019, AC003664, Z85986, AC005786, AC006079, AC000052,

HMMBX01	8307	1 - 406	15 - 420	AC004263, AC004033, U52111, AL109627, AC006211, AC004034, AL049759, AL080243, and AC005306.
HMMBV08	8308	1 - 450	15 - 464	AI220476, AI376552, AI935005, AW090719, and AC006504.
HMMBU13	8309	1 - 444	15 - 458	AI939575, and AI362923.
HMMBT64	8310	1 - 408	15 - 422	H65100, AC004686, AF201333, and AF081568.
HMMBT30	8311	1 - 607	15 - 621	T96528, and AA543014.
HMMBT03	8312	1 - 631	15 - 645	AA280370, R58990, H71497, AC005050, and AL031985. AI754567, AI583466, AI061313, AL079734, AI436433, AI962030, AI366993, F23264, AW237905, AA904211, AI755214, AI923052, T74524, AI754105, AI754653, AA420546, AA864603, AI254959, AI612142, AI281730, AA515728, AW103406, AI354423, AI306232, AA829036, AA535216, AI583252, AI610941, AW275432, AA469327, AW274191, AA225406, AI926102, AI923451, AI635028, AI801505, AA456924, AI469599, AW243793, AA595661, AA714011, AW151541, AI521525, AI279417, AW271904, AW020088, AI798449, AI251576, AW272294, H07953, AA825827, AW023111, AL041375, AI984168, AA483606, T49633, AI291439, AI290405, AL138182, AI537995, AI536858, AII30709, AI249688, T05118, AA570740, AW069227, AI476049, AA524616, AA683069, AI917132, AI674840, AA651639, AI380617, AA608520, AI491765, AW272640, AI814682, AA284247, AI923458, AW328000, AI590485, AW089016, AA937809, N77915, AI753113, H05940, AC005006, Z98036, AC005004, AC004757, AF196779, AC004386, Y14768, U85195, AC005962, AE000658, AC007298, AP000505, AF165926, AL021154, AC006333, AC006026, AC004466, AP000114, AP000046, AC006312, AL049843, AC007371, AC004106, Z85986, AL023553, AC004991, AC005261, AC002425, AL031659, AC006942, AC002301, AC002418, Z95331, AC003669, AC004922, AL031680, AC009247, AC005821, AC002316, AL109839, AL035407, AL034548, AL049839, AC005736, AC005039, AL031737, AC005899, AL035587, U96629, AF130343, AC007707, AL034343, AC005378, AC004148, AC000003, AC007731, AC005632, AC005500, AC005280, AC007227, Z84487, AC005274, AL049643, AC000353, AC004216, Z98256, AC007686, AL022098, AL050318, AC005837, Z98751, AF152363, AF030876, AL023879, AL121655, AC004972, AL031848, AF031078, AC005220, AL024498, AF000000, AL049872, AC007546, AC004033, AP000510, AL049780, Z93017, AC004821, AC004988, AC004458, AC005544, AC006552, AC009516, AC005952, AC004819, AL079340, AL109758, AC003080, AC005598, AC000118, AL117329, AL049856, AC006211, AL022315, AF134726, AC002369, AC002426, AL050307, AL078581, AL133163, AC006057, AL121603, AC004796, AC005887, AC007052, AL049712, AL049636, AF053356, AC006354, AC004408, AC004181, AL050348, AC005158, AB023048, AL022724, AC004686, AP000697, AC005095, AC004999, Z93016, AC005670, AJ011930, AC008072, AL009172, AL022238, AL035659, AL121652, AL080317, AC005535, AC003982, AL117258, AC008115, AL024508, AP000302, AC005844, AF001549, AC005484, AC006017, AC004491,

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HMMBQ08	8313	958988	1 - 343	15 - 357	N24829.
HMMBO49	8314	722753	1 - 439	15 - 453	R56828.
HMMBO28	8315	686318	1 - 344	15 - 358	AI242854, and T99820.
HMMBN76	8316	769890	1 - 482	15 - 496	W88435, R98924, and T80763.
HMMBN71	8317	973436	1 - 458	15 - 472	Z99396, AL119484, AW392670, AL119391, AL134519, AL119319, AW384394, AL119522, U46347, AL036418, AL038837, AW363220, AL119497, AL119457, U46350, AL119324, AL037051, AL036725, AA631969, AL119363, AL119443, AL119483, U46351, AL119355, U46349, U46341, AL119341, AL119396, AL038509, AL036858, AL119444, AL119418, AL039074, AL119496, AL036924, AL037205, AL134528, AL043003, AL042614, AL119401, U46346, AL042544, AL134525, AL037639, AL134524, AL039564, AL039085, AL037094, AL039156, AL134518, AL037082, AL042984, AL042965, AL042975, AL039108, AL039109, AL037526, AL039128, AL119399, AL036196, U46345, AI142137, AL134538, AL043019, AL043029, AI142132, AL042551, AL036767, AL037085, AL038447, AL043029, AL036190, AL042450, AL037077, AL036268, AL038520, AL038851, AL036238, AL037615, AL119464, AL036774, AL037178, AL036998, AL036733, AL036719, AL037027, AL036765, AL036679, AL036191, AL036158, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AB026436, AR043113, and AR054110.
HMMBN54	8318	729352	1 -,384	15 - 398	H73690, and AF152365.
HMMBM8 3	8319	781010	1 - 228	15 - 242	T95450, W03267, and AC004112.
HMMBL55	8320	731523	1 - 438	15 - 452	R36479, and AI091460.
HMMBH64	8321	746402	1 - 337	15 - 351	T78390, and AL031714.
HMMBF86	8322	812597	1 - 156	15 - 170	H56329, AA852740, AA331858, AA314410, AA375100, AA356819, AA331462, AA295347, AA232345, AA242864, AA081834, AL037869, AL037847, U91327, and AF026166.
HMMBF72	8323	761389	1 - 304	15 - 318	T91720, and AC007016.

HMMBF41	8324	711731	1 - 492	15 - 506	T40112.
HMMAV44	8325	716396	1 - 628	15 - 642	T86763, T86671, F05025, F05024, AL109758, AC005089, AC004770, AF053356, AP000555, AC002400, AL032821, AC002300, AC003010, AC004938, AC002302, U89335, AP000512, AC005067, AC005412, AC008038, AF001550, AC006480, and AC005529.
HMMAT23	8326	973437	1 - 572	15 - 586	AL035447.
HMMAT08	8327	959005	1 - 519	15 - 533	T64273.
HMMAS73	8328	764280	1 - 583	15 - 597	N47781, AI732466, AA133879, AI820506, T70099, AI821351, T70032, N56894, and AC006599.
HMMAR20	8329	669523	1 - 648	15 - 662	AA968696, AI017739, T71248, R85439, AI343336, AI168580, and AI699440.
HMMAQ70	8330	757070	1 - 428	15 - 442	W04436.
HMMAO06	8331	935087	1 - 643	15 - 657	AI241754.
HMMAL71	8332	760206	1 - 412	15 - 426	AA449997, AL079734, AA502207, AI733856, AI683552, AL041375, AA297666, AI859438, AI279417, AA714110, AI732483, AW237905, AI366993, AA715814, AI049630, AI281561, AI053696, AI491765, W23546, AA410788, AA508809, AL047349, AI783911, AI284045, AI908093, T74524, AA704393, AI912401, AL046519, AI821881, AI753113, AI821918, AI281818, AW080215, AA669238, AI114733, AI133552, AI251576, AW243793, AA558366, AW340905, AI962030, AI054244, AI440117, AL135377, AA609834, AA584241, AW193493, AA483606, AA515138, AI620585, AW419389, AI753672, AA904275, N23913, AI936229, AA507343, AA720732, AA315361, AI620992, AA570740, AL119909, AI270177, AA535216, AI753365, AI612142, AW167154, AW407632, AI961983, AI417469, AA632765, AA503018, AA665021, AI053784, AI066646, AA128511, AA992562, AI583466, AI267269, AW089625, AI597832, AI801563, AA513551, AI380617, AA568204, AA133013, H07953, AA904211, AI244985, AI284092, AI814682, AA557982, AW270619, AA084766, T05118, AI537995, AI130709, AI267356, AI267450, AA225392, AI306232, AA644090, AA610381, AW192373, AI267884, AI865213, AA533408, AW089016, AA730305, AC006312, AF030453, AC005088, AL049569, U80017, AC004851, AC005740, AC005899, AC006211, AC005081, AC005015, AC005225, AF196972, Z83844, AC009247, AF196779, AC005874, AF134471, AL096701, AC020663, AC004883, AC006511, Z83846, AC002425, AC005231, AP000558, U89336, AP000694, AC006017, AC005914, AL049795, AC005529, AC005086, AL121653, AL022163, AC005082, AC007226, AC006538, AF001552, U95740, AL035086, AL031846, AC005722, AC005527, AC004099, AC004491, AL049653, AL023883, AC005565, AL050318, AC004811, AF053356, AF001549, Z93023, AL096791, AP000692, U47924, AC006115, AC002483, AL022238, AC006121, AC007308, AC002126, AC006285, AC004876, AC005200, AC005519, AC005702, AC000094, AC006449, AP000557, AF064861, AC007421, AC007057, AC003026, AL020997, U96629, AL031281, AC004858, AC002565, AP000044, AC006006, AL080243, AC002477, AC005089, AC004796, AL049538, AC005358, Z84572, AL009183, AL049830, AL031005, AC005072, AC003982, AF130343, AP000212, AP000134, AP000967, AC004263, AC008115, AC003663, AL034420, AC005730, AL034379, AC006544, AC007384, AL132712,

HMMAL69	8333	1 - 395	15 - 409	AC005921, AC006111, AC002997, AC004125, U85195, AC006064, AC002558, AC005031, AC004996, Z82244, AC002310, AL022316, AC002492, AC005005, AC005215, Z99127, AL109627, AC004534, AF037338, AC008044, AC005829, AL080242, AE000658, AC007688, AL049631, AC004019, AL022313, AC007536, AC005821, Z97054, AC006543, AL031594, AF109907, AC007563, AP000402, AC006530, AL031662, AD000092, AC004526, U91323, AC006241, AL121652, AC003957, AC004686, AL024508, AC007686, AC002044, AC004874, AC002350, AC007055, AC005261, AC004983, AL121658, AL021393, AL031681, AL078463, AB000882, AL050341, AC005156, AC006430, AL030996, AC009516, Z95115, AL133163, I34294, AC002326, AC004881, AL033397, AC007687, AC006057, AL049636, AL024498, AC007731, AC004895, AF187320, Z97630, AL031311, AC005071, AC004757, AL132777, AB023048, AL024507, AP000223, AC004648, AC005531, Z98950, AC007225, AC006388, AC006023, M30688, D14872, AC004966, AC005920, AC003101, AC004990, AC007151, AC006509, AC005902, AL035423, AC002470, AC007193, AC005602, AC002426, AC007845, AC005331, AF134726, AC007899, AL133448, AL117352, AC007546, AC005578, AC004216, AC007707, AC002416, AC002996, AC002430, AL049776, AC005057, AJ246003, AL031848, AC005695, AC008116, AL020993, AL133396, AF207550, AC004941, AC005808, AC005666, AC005632, Z85986, AC004887, AC004890, AC004622, AC004921, AL035455, AC002316, AC003029, AP000504, AL023553, AC004638, and AC007298.
HMMAL59	8334	1 - 414	15 - 428	W87482, and T40816.
HMMAL54	8335	1 - 422	15 - 436	AI66921, AI866920, AA135159, R06121, AW004825, AI683019, AL031120, and AC004854. AI245693, AW303822, T08386, AC005763, AC005696, AL031311, AC004804, Z99716, AJ246003, D87675, AL121658, AC003101, AC004150, AL031280, AL035079, AC007262, U85195, L44140, AE000658, AC005412, AL022316, AC004890, AF165926, AC005520, AL121652, AC002314, AC002041, AD000092, AL049766, AC005736, AC005180, AL035422, AC004854, AC005049, AL109628, AL035405, AC004491, D88268, AL049764, AC005562, AC005932, AF045555, AP000104, AP000115, AC004972, AC007160, AC005081, AC018633, AB026898, AL049829, and AL096712.
HMMAL44	8336	1 - 411	15 - 425	W86636, AI692200, and AI800445.
HMMAL42	8337	1 - 411	15 - 425	AL133246.
HMMAL35	8338	1 - 291	15 - 305	AA492230, AI890283, AA506952, AI684335, AI983447, U73642, AC005484, AL031848, AC005231, Z84466, AC009247, AC002558, AF205588, AC006241, AC006064, AC005200, AC005544, AC004686, AC006511, AC004491, AL034370, AL133396, AC004805, AL049776, AC005529, and AC007382.
HMMAL30	8339	1 - 137	15 - 151	
HMMAL18	8340	1 - 386	15 - 400	
HMMAL16	8341	1 - 399	15 - 413	AA782338, AP001052, AC006012, AC005736, AL022331, AC005632, AP000558, AC009516, AL136504, AC007688, AC007938, AL008718, AC007731, AC005500, AP000553, Z85996, and

					Accessions
					AC005255.
HMMAK83	8342	781016	1 - 697	15 - 711	AA007282, AI698091, AA007283, H78432, R91689, R97591, AI311305, R91688, and AI302599.
HMMAH61	8343	741662	1 - 437	15 - 451	H40407, AW391548, and AI356524.
HMMAF92	8344	973971	1 - 618	15 - 632	Z99396, AW392670, AW372827, AW384394, AL119355, AW363220, AL119319, AL119497, AL119443, AL119335, AL119363, U46341, AL119483, AL119457, AL119324, AL119496, AL119484, AL119391, AL119396, AL119341, AL042614, AL119522, U46349, AL042970, AL037526, AL042433, AL134518, AL042965, U46351, U46346, AI142137, U46350, AL134920, U46347, AL119444, AL119418, AL119320, AL042995, U46345, AL119439, AL037205, AL042850, AL038520, AL134532, AL119488, AL036268, AL119304, AL036679, AR060234, AR066494, A81671, AB026436, and AR054110.
HMMAF34	8345	842015	1 - 466	15 - 480	AA513125, AI926296, AI949430, AW085621, AW168103, AI583532, AI474110, AA826599, AI473995, AI073373, AA056206, AW166944, AW173443, AL037632, AA297776, N70293, AC002096, AC006080, AC005726, D84401, Z82215, AL031228, AL022067, AL034548, X87344, AC003665, AL020989, AL022097, AC005004, AL033524, AC004408, AL034554, Z95152, AC005089, Z99716, AC006597, AL132708, AL049553, AL109748, AC005858, AC007056, AC005539, AC002430, AC007384, AL022165, AC007182, AP000502, AC005859, AP000065, AL008732, AD000092, AC009464, AL031584, AC005669, AC005409, AF196779, AL139054, AF053356, AL096791, AL049869, AL109801, AL031905, Z86090, Z93020, AC003663, AC004890, AC007308, AC002470, AL031289, L78810, AC005747, AB023048, AP000511, AC005820, AL035703, AB022785, U89336, AL031005, Z84466, AC004876, AL022316, AP000555, AB014079, AC006139, AP000514, AC005088, AC002094, Z99289, AC005988, AC006117, AJ003147, AC002550, AL031284, AL034562, AC003086, and AL122020.
HMMAE45	8346	720838	1 - 791	15 - 805	T91212, T79614, AA553354, AI144465, H75716, H75645, and AF085988.
HMMAE16	8347	856007	1 - 390	15 - 404	AI915564, AI538833, AW449097, R33336, and R21762.
HMMAB96	8348	826488	1 - 772	15 - 786	AL119483, AL037777, AI267356, AA298789, AI133083, AI270177, AW069227, AA381754, AI754567, AI755214, AI362442, AI249688, AI754105, AI634187, AW265155, AI249519, AI085242, AA302971, AI754687, N63149, AA584438, AI457313, AC005519, AL078584, AC005412, AC005919, AC004921, AC003012, AC000025, AC002288, AC004492, AC006017, AC005529, AC002316, AC004922, AC007114, AC002303, AC005183, AC005694, AC004228, AL034379, AL022330, AL035415, AC003049, AC007227, AC006449, AC004799, AL049776, Z83844, Y18000, AP000212, AP000134, AP000030, AL117338, AC005527, AC005243, AC005015, AC004032, AL035443, AL021368, AC005220, AC007687, AC004983, AL049829, AC007298, AF001552, AC007225, AL022334, AF196779, AC006312, AC008149, Z94056, AC002287, M89651, AC004638, AL035422, AC005730, AC007688, AC004837, AC005874, AF134471, AC005081, AC006064, AL035410, Z98200, AL135783, Z99570, Z85987, AC004770, AC002352, AC002470, AC002302, AL034548, AC004796, AC005722, U91323, U78027, AC005899, AL008635, AC005553, AC004106, AL079342, AC004825, AC007537, AC002457,

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HMCIW93	8349	897377	1 - 293	15 - 307	AW238972, AW406916, AA075901, AA044211, H25630, H43485, AA287470, AA296869, AA296696, AA298795, R55519, H80718, H73675, AA034079, AA296826, AA187096, AA218811, AA297863, AA296837, R95168, N86960, R39644, T10507, AA485829, AI342703, C00212, W95348, AA806231, AF161462, and AC002390.
HMCHZ77	8350	771795	1 - 345	15 - 359	R07250.
HMCHS34	8351	703691	1 - 483	15 - 497	T86231, T83384, and T86130.
HMCHK58	8352	752431	1 - 574	15 - 588	AA160383, AI818161, AI962470, AI655470, AI201401, AI962522, AI809442, AA757199, AA954406, AI557476, W46315, AI263049, AI557453, AA332432, AI867723, AA383667, AI205764, AA370001, AA157926, AA884706, and T78360.
HMCGX46	8353	886903	1 - 415	15 - 429	AI159933, AI971968, AI189367, AII183889, W79831, N92399, AA557293, AI350318, AI017848, AA127092, AII189367, AI924445, AA911261, N70568, AI273685, AI291841, AI912574, R49953, AA937786, AA988459, AA404424, AI081962, W19157, AI129889, AA935718, AI066610, and AF111170.
HMCGV66	8354	787512	1 - 203	15 - 217	
HMCGF39	8355	856222	1 - 484	15 - 498	W27128, and H14722.
HMCFR57	8356	734404	·1 - 405	15 - 419	AI304652, AI347073, AI343275, AI261508, F26025, AA936207, N66083, AA769680, AI867524, AI262402, T99852, and AA854036.
HMCFM86	8357	846578	1 - 498	15 - 512	N58309, AI741756, AA719678, Z39349, H77634, AA868804, AW183178, AI033998, AA910754, AA837855, AI310989, AI753587, AA907745, AA424559, AI015988, AI290795, AA992451, AI025107, AA806009, AA007654, AI033216, AI399750, T06491, AA917469, AA134955, AA702309, AA934480, AA873079, AI097519, W90376, AI818372, R05851, AA285180, AW118589, D56552, AI474543, R98024, T03445, AA886062, AA533260, M78918, AI468146, AA309446, AA424656, AA492384, AF132945, and AF112204.
HMCFM04	8358	927002	1 - 529	15 - 543	AA569402, AW070532, N38778, AW190781, AW340905, AA535216, AW023111, AA773463, AW237905, AA714110, AA828637, AA524616, AI674840, AI755202, AI066646, AW272294,

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HMCDN93	8359	791555	1 - 340	15 - 354	AI889060, AW015362, AI423278, AI096899, AI498494, AI421575, H86117, AW015459, AI399718, AI972927, AA745122, R40242, AI669223, D87468, and AF193421.
HMCDC70	8360	757192	1 - 360	15 - 374	AI334327, AI312094, AI337819, AA506997, AA576525, H71553, and AA729906.
HMCAR04	8361	925591	1 - 551	15 - 565	AL048459, and T98081.
HMALZ77	8362	856266	1 - 330	15 - 344	AA111882, and T73731.
HMALK06	8363	933960	1 - 395	15 - 409	W21990.
HMAJZ39	8364	751523	1 - 532	15 - 546	AA182941, and Z43441.
HMAJL09	8365	950168	1 - 633	15 - 647	AR007575, I18860, I18861, I55990, and I55991.
HMAIU90	8366	886821	1 - 531	15 - 545	AI393335, AI683302, AB008185, and AB008184.
HMAIQ20	8367	669436	1 - 446	15 - 460	H87256, H87307, AI640360, AI263034, and AI360741.
HMAIH15	8368	956705	1 - 527	15 - 541	AA585439, AI526194, Z28355, AI541508, AI541514, AI546855, AI525306, AI541523, AA585101, AI557807, AI525556, AI546999, C16300, AI541509, AI525316, AI546945, AI546899, Z30131, AI535639, AA585453, AI541510, AI541534, AI556967, AI546828, AI557799, AI557796, AI541374, AI541365, AA585434, T11028, AI547039, AI546875, R28735, AA585476, R29445, AI526140, AI525431, AA585356, D61254, AI541535, AL040149, C15189, AI541307, AL041140, AL040464, AL040155, AL041346, AL041096, AL047012, AL041358, AI557787, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL044162, AL041086, AL043496, AL041296, AL041233, AL045725, AL040193, AI541017, AI557731, AL041197, AI526180, AL043612, T23985, AL040463, AL047219, AL041227, AL039915, AL047170, AL080031, AL040119, AL040553, AL040529, AL041292, AL041051, AL040322, AL041131, AL046330, AL045990, AL041133, AL040253, AL041238, AL041142, AL040625, R29177, AL040510, AL043467, AA585440, AL044186, AL047057, T23957, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL046442, AL040332, AL040617, AL045684, AL040576, AL040745, AL038761, AL040370, AL049018, AL040839, AL041752, AL047036, AL041159, AL043775, AL045817, AL044074, AL041602, AL043444, AL045920, AL047183, AL038838, AL040263, AL040294, AL040075, AL040329, AL040082, AL044272, AL044187, AL040090, AL040148, AL041730, AL041523, AL043627, AL041374, AL040052, AL045671, AL041186, AL040148, AL041246, AL039338, AI525321, AL044064, AL038983, AL039316, AL043923, AL043845, AL043848, AL041459, AL043570, AL039744, AL041577, AL044258, AL046850, AL043814, AL043848, AL040768, AL040414, AL046994, AL040571, AL040472,

HMAIA55	8369	1 - 1005	15 - 1019	AL046914, AL079878, AL043537, AI142134, AL046392, AL044274, AL040444, AL041278, AL042135, AL044201, AL041168, AI541390, AL045857, AL046327, AL041955, AI557262, AL038822, AL045753, C16305, AL046147, AL044529, AI525320, AL049069, AI546891, R29218, AL040238, AI535660, AL041347, T41289, AI557084, AI039360, D57491, AI541415, AI557082, AI541506, AA174170, AI525328, AL045989, AI541205, AL044125, AI526073, AL037436, AI541317, AJ239433, AI526184, AL039432, AI526187, AI525203, AL037435, AI540882, AI526196, AI526195, AL039643, AI557802, AI557155, AI557238, AI541179, AL045211, D55233, AL043941, AL046097, AI547006, AI525339, AI546971, R45895, AI536138, AI526144, AI541345, T23888, AA283326, AL037323, R28892, AA585155, AL037443, R28895, AR017907, I44681, I13349, A91965, X81969, AR008429, I18895, A25909, AR062871, A85395, A85476, AR038855, AR037157, AJ244007, AJ244004, AJ244005, AJ244003, AR062872, AR062873, AF082186, A20702, A20700, A43189, A43188, AR038762, X83865, A84772, I15717, I15718, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A86792, A58522, A91750, I63120, A98767, M28262, A93963, A93964, Y16359, A98420, A98423, A98432, A98436, A98417, A98427, I08396, I49890, A60212, A60209, A60210, A60211, A13392, A13393, D78345, AR038066, E03627, I08395, I48927, I00682, A11623, E00609, A11624, E16678, I03331, E13740, A11178, E01007, A02712, A02710, E12615, AR035193, A10361, AF149828, E14304, A77094, A77095, I21869, A07700, I62368, AR031488, I13521, I84553, A81878, I52048, A27396, I84554, AR043601, A11245, A95117, A95051, A18053, AR027100, I44531, I28266, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, A92133, A24783, I44516, A24782, A70040, A20699, E00696, E00697, E03813, I66482, AR009151, I60241, I66485, I60242, I66483, I66484, I66498, I66497, I66496, AR027099, I66487, I66486, AR051652, A82653, A35536, A35537, A58524, E16636, A58523, A02135, A04663, A02136, A04664, A93016, I06859, I01995, Z32836, AR051651, I25027, AR031566, I08051, I26929, I44515, I26928, I26930, I26927, A90655, AJ230935, AJ230902, D50010, Y09813, U94592, I05558, AJ230972, AJ230951, I18302, AJ231009, E12584, I19525, I08389, X07299, A70872, A22738, I66495, I66494, AR035975, AR035977, D13316, AR051957, I66481, A83642, A83643, I66488, I66489, I66490, I66491, I66492, I66493, A70869, A83151, D13509, AB025273, AR035974, AR035976, AR035978, AR022273, I36244, A68112, A68104, AR009152, and AR051864.
HMAHP37	8370	1 - 428	15 - 442	AI380016, AA917719, AI990640, AA380953, and AI002739.
HMAGT95	8371	1 - 344	15 - 358	U79131, and U79132.
HMAGS90	8372	1 - 346	15 - 360	H19699, and Z57976.
HMAGI39	8373	1 - 367	15 - 381	AA232761, and AA232130.
HMAFF71	8374	1 - 538	15 - 552	AW445199, AI291885, AI291659, AI681688, AI796788, AI863432, AI371323, and AI586930. AA133358, AI025161, AW340752, W05217, AW402176, AA036844, AW444614, AI733576, and AL137679.
HMAFC96	8375	1 - 436	15 - 450	H73609, AC002536, and AF125569.

HMAEK93	8376	1 - 750	15 - 764	AA861218, AA150260, and AA150251.
HMADF74	8377	1 - 1131	15 - 1145	AA311043, H11578, R59755, AA927842, AA199784, AI000363, AII26309, R13187, AI693684, and AL096806.
HMACZ84	8378	1 - 340	15 - 354	
HMACV54	8379	1 - 409	15 - 423	AI000925, AI261943, AA614341, AA532388, AI000930, AI742836, AW376738, AW136154, AW376570, and E08096.
HMABT55	8380	1 - 444	15 - 458	N50809, AA931135, AA972697, AA401345, AI024270, AA873221, AW082806, AW025001, AI752742, AI138745, AI277497, AW452978, AI554935, H50235, AI911227, AI700463, AW303800, AI275531, AI241950, AI760168, AI095901, AA618048, AI936652, R09749, AA936697, AII99598, AI206725, AI830389, AA084391, AA987748, H64022, H06700, AI926722, AA988399, AA838228, AI357218, AI362511, AI362439, AA937768, AI879499, AI693589, AI366339, AI363966, AW363996, T91307, AW149618, AA025560, H15722, AA991841, AA970173, Z40694, AA663409, H20195, AW083589, AI963935, AA843550, H64785, AI243967, AA725384, AW449564, AW450568, AW339993, W96140, W92486, H41770, and AA018786.
HMABD66	8381	1 - 370	15 - 384	
HLYHN64	8382	1 - 577	15 - 591	N53558, AI078352, H49897, W00521, N30989, N57223, AA314759, AA431398, AA972343, AA593987, AA418304, AA101913, W90550, H67020, AW450639, N36463, AA120767, AI494530, H53270, H54554, H54238, AA011423, H66916, AA385267, AI784295, W07652, H84477, AI188087, AI379720, AA430152, and AC005859.
HLYHN40	8383	1 - 468	15 - 482	H82097, H10880, and H96186.
HLYHL55	8384	1 - 447	15 - 461	R32479.
HLYHK64	8385	1 - 456	15 - 470	H53572, AA745885, H28445, AI494060, AI676167, AA889745, AI866665, AI245303, AA703022, AI016995, AW264349, AI254741, AI287476, AW160916, AA580663, AI345688, AA742390, AA641818, AL138406, AI590043, AI309380, AI567846, AI537244, AW075382, AI538885, AW151136, AI432644, AI500061, AW079432, AW022808, AI859991, AI953765, AL037454, AI623941, AW022636, AI287233, AI702527, AA766077, AW161579, AI540674, H89138, AI587121, AW304497, AW268759, N29277, AI673278, AI918449, AL118781, AI473451, AA811142, AI538764, AI868204, AI866461, N63128, AW161156, AL037602, AI446373, AI969655, AW020095, AI499890, AW021717, AI890907, AI345745, AA676361, AI929108, AW020419, AL039086, AL047344, AI581033, AI961278, AI537274, AI432570, AI686576, AW020693, AI340603, AL037582, AI537677, AI621341, AI524654, AI866465, AI699391, AW162194, AI284517, AI560545, AI923989, AI241901, AI783530, AW020397, AW190297, AL135024, F26535, AI371251, AW163834, AW021373, AI289791, AI888621, AI473536, AI589428, AI696603, AL046466, F27438, AI281757, AI270295, AI471282, AI636619, AI933992, AW082532, AW274343, AW051088, AI472484, AI633125, AI829990, AI538564, AI553645, AL036631, AI915291, AW152182, AW274318, AI582932, AI872423, AI540606, AI434731, AI524179, AI521560, AI889189, N52016, AI539800, AW195253, AI309306, AW104141,

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AL080110, E01812, AL117585, AF151109, AL117649, AL137574, S68736, E12580, AB029065,
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X82434, S63521, A49139, AL050149, U37359, AL023657, AF125948, E00617, E00778,
E06743, AF106657, AJ005690, U72620, D55641, AF113019, X87582, Y10936, AL122106,

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HLYHK61	8386	932994	1 - 1027	15 - 1041	AI628843, AW167099, AI093592, AI926603, AA470016, AI986035, AI313500, AA617710, AI027777, AA865403, AA514353, AA782005, W69345, W69267, AA860421, W01351, H30472, AA423925, AW131013, AI299627, AA423887, AA034305, AA781518, AI160307, AI446603, AA922534, AA533814, W16698, AW169172, AA654163, AA412735, N69522, AI440188, AI610236, AI752781, R26875, AI306695, AA412294, AW409605, N79834, AA459402, AI049694, AW068125, AA534481, AA745698, AI347601, N54138, AA626929, R72510, AI865836, AW044069, R94735, AA024807, R72511, AA932913, AA430220, AI383150, AI539588, W67475, AL044134, N58666, AI223230, AW088334, AI186385, AI902383, H72504, AA295920, W38450, R70436, AA545735, R53036, R69450, AW368627, AI902360, H24955, AA431234, AI205760, AA552310, AA459627, R53036, C17844, F04994, H77299, D29280, AI436086, H25748, R53035, AA411966, AI648587, AA432254, AI002434, AI016462, R94818, AA865593, AI051263, AI926118, AA643144, R24912, R37917, AA443912, H24995, R72497, R72498, R11020, and X52574.
HLYHK34	8387	703776	1 - 505	15 - 519	R67395, AA865763, AW238410, AI269636, AI636456, AL110306, AL119049, AI929108, AI475371, AL041772, AI567351, AI537273, AI492540, AL045500, AL119791, AL079963, AI497733, AI433157, AL036901, AI537677, AI868831, AI285735, AI343059, AI349933, AA225339, AI696626, AL036802, AI431909, AI433976, AA738104, AI340582, AI340603, AI800138, AI280607, AW238730, AW088899, AW151136, AL121328, AL119863, AW071417, AL121365, AI064830, AL044207, AI909642, AW020095, AI919107, AW162071, AI500077, AI288285, AL040241, AL036396, AW074993, AI888953, AI815855, AI349645, AI344817, AW301344, AW268253, AI699865, AI312152, AI366992, AI312428, AI336575, AI349937, AI499652, AW087445, AW089572, AI802542, AA640779, AW103371, AI349256, AI269862, AI815232, AI697324, AI280732, AI888944, AI174394, AI580190, AI951076, AW302965, AI524671, AL121270, AW167222, AI364788, AL036187, AI680162, AI251830, AI869377, AI538716, AW078680, AI349772, AA613907, AI249877, AW129106, AI446373, AL041573, AW117882, AW020164, AL038605, AI340519, AL120853, AL048656, AI440426, AA427700, AL040169, AI610557, AL036361, AL047042, AW163823, AI521012, AI567360, AW071349, AI921248, AI627748, AI620284, AI345608, AW406745, N80094, AL036736, AI702073, AW026882, AL135661, AI612913, AW168485, AI818683, AI499393, AI680457, AI783504, AW268251, AL135065, AI539771, AI560012, AI250663, AI343112, AI680498, AI922901, AI349598,

AI500659, AA761557, AI345471, AL047763, AI469532, AI439762, AI906328, AL040827, AI934035, AI284517, AI633419, AL036274, AA572758, AI631273, AI345735, AI866780, AI358701, AI318569, AI436429, AI923989, AW130863, AW151138, AI591316, AW303152, AA585422, AI433037, AI345253, AI597918, AI493559, AL049085, AI608676, AI689175, AW084219, AW103886, AI952920, AW162194, AI933785, AI554218, AI866002, AW079572, AW268220, AI702406, AI828731, AA715307, AW079159, AI619716, AW172723, AI679724, AA658033, AW087938, AI499285, AI934147, AI873644, AI687065, AI612759, AW089179, AW130930, AW151729, AI867042, AI696819, AL043981, AI282903, AI566630, AI432040, AL040243, AI349614, AL036403, AI280661, AI859464, AI445990, AI659795, AI537617, AI919345, AI520809, AI569309, AI922577, F36033, AI349004, AI494201, AI571909, AW082594, AI478123, AI207510, AI352497, AI564749, AI689420, AI537515, AI538342, AI284131, AW198075, AI554821, AW088134, AI366549, AI824576, AI636719, AI824746, AW189415, AI539153, AI343091, AI500553, AI280670, AI097410, AI590686, AI587606, AW163834, AI468872, AC004900, I89947, AL122050, I48979, AF118070, AF090900, AL133640, AF113694, AF104032, AF090934, Y16645, AF125948, AF090903, AF090901, AL050138, AF090943, AF125949, AL096744, AL049452, AL050024, U42766, Y11587, AF113013, AL110221, S68736, A08916, AF097996, AF078844, AL050393, A08913, I48978, Z72491, I89931, AL133075, AL117457, AF158248, AL050146, A12297, AF113019, AL049938, S78214, AJ242859, AL133557, AL133016, AF111112, AR038969, Y11254, AF113691, AL117460, AL133067, L31396, AL080124, AL133072, L31397, AL080060, AL133104, AF113677, E15569, AF090896, A08910, L19437, AL133080, I49625, AL137459, A08909, AJ012755, AR011880, A93016, AF118064, U67958, AL137648, E07108, AL122121, U72620, AL122049, AL049283, AL110196, I42402, AR059958, U96683, AL080137, X72889, AF100931, X87582, AL137271, X84990, A45787, AL133606, AL137527, AL080074, E04233, AL050172, AL117583, AL117585, AL137463, AL122110, E03348, AF113689, AL049314, AL133077, AL050108, AL133014, AL133565, AL137476, AL137556, AL133093, E05822, AF113699, AL137538, AL117394, AF079765, A08912, AF017437, E12747, AL137526, AC007458, AL050116, X82434, AF087943, X70685, AF162270, AF113676, U80742, AR038854, AJ000937, AL080159, AF111851, AF183393, Y14314, AL050149, AL117435, E02221, AF106862, E07361, I09360, AL137557, AF017152, AL080127, AL050277, AL110225, AL122093, AR000496, AL049430, U39656, AL137533, I00734, X63574, AF061943, S61953, AB019565, AF118094, E00617, E00717, E00778, AF177401, X65873, AF091084, AF067728, A65341, AL133560, AL121123, I26207, AL049382, Z82022, AF153205, AL122098, AF185576, AF146568, AL133560, AL049466, L30117, AL133098, AL133568, AL117440, AL133113, X93495, U91329, U00763, AL049466, L30117, AL133098, AL133568, AF079763, Y09972, AF081197, AF119337, AL137550, A93350, AF026816, A77033, A77035, I33392, AL049464, U35846, AL117432, A03736, AJ006417, AL110280, X98834, I03321, A90832, AL137478, X96540, U88966, A58524, A58523, AF003737, AL049300, AL137560, AF132676,

HLYHJ37	8388	1 - 466	15 - 480	AF061836, M30514, U58996, AJ238278, AF026124, A07647, U68387, AL137521, AF057300, AF057299, E08263, E08264, AF061573, Y07905, AF008439, AL023657, I66342, AL080086, A18777, AL137480, X62580, AL133081, X92070, Z37987, E08631, U78525, X53587, AF111849, X83508, AF081195, AL137294, I41145, AF067790, AL137283, AL122111, AL110197, AB007812, AL117649, AF061795, AF151685, and AL137300.
HLYHJ02	8389	1 - 522	15 - 536	H11582, and AC002433.
HLYHI05	8390	1 - 476	15 - 490	AA992212, and AI799979.
HLYHF62	8391	1 - 357	15 - 371	AA830774.
HLYHE85	8392	1 - 500	15 - 514	T47077.
HLYHA48	8393	1 - 489	15 - 503	AA251190, AA805977, AA765489, AA810907, AL118823, AA081462, H18914, AL135357, AA493136, R17793, AL118862, AA654661, AI524360, AI745151, AI755214, AA845209, AI284092, AA984114, AI754567, AA754105, AA002063, AI754105, AA584125, N57739, AA748833, AW179306, AA643801, AA548356, AL138182, AA282820, AA126450, AA664320, AI683446, AI270096, AW179305, AL049834, AL031733, AC009399, AC005829, U91323, AL034418, AL049765, AC002544, AC004031, Z83822, AL135744, AP000251, AL023803, AC008085, U95742, AC007065, AP000031, AL049610, AC007938, AC006442, AC000004, AP000134, AP000212, AP000030, AC007216, AC009044, AC006241, AL049829, AC005874, AF134471, AL049712, AC006509, AC005823, AL031587, Z85986, AC005488, Z86090, AC005233, AC005736, AC004837, AC007240, AF064861, AL132777, AL117338, AP000213, AC005755, AL078638, AP000135, AC007011, AC006111, Z83840, AC005037, AC004098, Z98036, AC007731, AC005005, AC007686, AL022165, AP000688, AL023799, AP000356, AC008101, AL031584, AC005484, AC003664, AC003982, U52112, AL035681, AC006441, AC007386, AL031053, AC002375, AP000692, AC005324, Z98304, AL022316, AC005899, AB003151, AC006958, AC005412, AC003098, AC007014, AC005225, AF107045, AC003029, AC005740, AL022574, AL121652, AC004821, AC005911, U95743, AF196779, AL031427, AC004905, AC006064, AC007707, AC003688, AC006511, AC007566, AC008079, AC006146, AC005180, AC002119, AC005102, AC004615, AC005523, AP000493, AL031311, AC004032, AL035071, AC004859, Z94721, AC004966, AL049576, AC007934, AC006317, Z98946, AL121658, AC004526, AC009247, AP000557, AC007934, AC005399, AC004895, AF111168, AL122020, AC007314, AL031431, AC005018, AC005091, AC005971, AC002565, AC005924, AC006581, AP000556, AF024533, AC004605, AL021918, AL035587, AL034417, AC005215, AC004134, AC006084, AC008009, AL021154, AC002477, AC008372, AC004257, AP000513, AC006515, AF001549, AC005545, Z82172, AL022323, Z75888, AC006167, AC005520, AC004167, AC007262, Z93017, Z81364, AC004491, AC004150, AC006079, AL096791, AL110502, AF051976, AL022163, AL049646, AL031230, AL109842, AL022476, AC006538, AC009516, AL078477, AL035089, AL096712, AC007666, AC004813, AC005996,

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HLYHA04	8394	614848	1 - 369	15 - 383	H60556, and T71255.
HLYGZ71	8395	760115	1 - 1102	15 - 1116	AA043495, AI951943, AW193804, AI694511, AI128000, AA412019, AI004612, AI652122, AA149258, AI184929, AI831205, AI914140, AI825243, AI828310, AA720916, AW016629, AI827812, AI696053, AI631553, AI962314, AI671447, AI917812, W16795, AA338943, AI968277, AI967940, H24914, AA149273, AA338944, AW196482, AA973869, AI962471, AA905468, AI394723, AI874337, and AC004707.
HLYGZ11	8396	966503	1 - 631	15 - 645	N69782, and AI282808.
HLYGY60	8397	740081	1 - 510	15 - 524	AA699729, W04930, AI200342, AI742692, AI571717, N31641, AA255846, AA158572, AI672122, H09986, AI872640, T97584, R11183, AL050099, AF090421, and AF074393.
HLYGW95	8398	795682	1 - 547	15 - 561	AW026243, AI040710, W84710, AW008549, AA573109, AA236651, and W78856.
HLYGR56	8399	733123	1 - 623	15 - 637	AA149383.
HLYGQ29	8400	689972	1 - 423	15 - 437	R37228, R21422, and AI336270.
HLYGQ11	8401	966539	1 - 335	15 - 349	AA251264.
HLYGM76	8402	769835	1 - 438	15 - 452	AI914239, AA164188, AA911297, and AI299137.
HLYGM08	8403	958820	1 - 96	15 - 110	R25343.
HLYGJ76	8404	685240	1 - 552	15 - 566	T48433, AI767091, AC002300, and AC007637.
HLYGH51	8405	871634	1 - 451	15 - 465	R07073, and AC009363.
HLYGD69	8406	754841	1 - 289	15 - 303	AA829595, and R96050.
HLYGB38	8407	709187	1 - 403	15 - 417	H60939, and H60852.
HLYFW38	8408	709185	1 - 378	15 - 392	AA011710, R07553, H90263, and AC003006.
HLYFU24	8409	856392	1 - 523	15 - 537	T93162.
HLYFR17	8410	859567	1 - 779	15 - 793	AW139151, AI871342, AI763244, AI452467, AI553909, AA948409, AA010128, AI222204, AI143693, AI422032, AI273370, AI272906, AA854857, AI139496, R42952, AI192619, AW205762, AA853531, AI498208, AA736392, Z41265, AA010127, AI073814, AI928656, R64374, and R64373.
HLYFP56	8411	871637	1 - 510	15 - 524	AA811657, AI342538, AW204675, AA748459, AA252369, and AL109939.
HLYFO29	8412	690381	1 - 508	15 - 522	AA058482, AI784112, AL022476, and AC004924.
HLYFE11	8413	966519	1 - 641	15 - 655	AA777743, U95742, and AC007216.
HLYFD51	8414	725116	1 - 536	15 - 550	H09377, AW405976, AA281160, AB018260, and AC007868.
HLYFC54	8415	729299	1 - 528	15 - 542	H81232.
HLYEV46	8416	889678	1 - 453	15 - 467	AW016081.
HLYEV42	8417	856395	1 - 571	15 - 585	T95746.
HLYET54	8418	729406	1 - 542	15 - 556	R94090.
HLYET48	8419	721501	1 - 416	15 - 430	R19796.

HLYET17	8420	1 - 406	15 - 420	R10240.
HLYES45	8421	1 - 629	15 - 643	R13145, AW402725, and AA322385.
HLYEP59	8422	1 - 523	15 - 537	T72749, and T78529.
HLYEO83	8423	1 - 623	15 - 637	AA088553, W27797, AA085803, AA088387, and AA811260.
HLYEO37	8424	1 - 622	15 - 636	H73386.
HLYEL71	8425	1 - 536	15 - 550	AA234738.
HLYED44	8426	1 - 341	15 - 355	AA074364.
HLYEC21	8427	1 - 411	15 - 425	N55397.
HLYEB11	8428	1 - 338	15 - 352	H81361, T86913, R11275, and T81629.
HLYEA92	8429	1 - 390	15 - 404	AC004904.
HLYEA86	8430	1 - 416	15 - 430	H60327.
HLYEA70	8431	1 - 739	15 - 753	W79930, AA233418, T87364, AI765694, AI042017, AI672297, T87365, R94396, AI082728, R78669, R32116, AI768587, AI025761, AA564574, AI142898, AW026724, AI183414, AW183773, AI075126, AA127962, AI910695, N34843, AI628624, AW192585, H64364, H48681, AW263057, R32115, and H65991.
HLYEA49	8432	1 - 319	15 - 333	T63328.
HLYDY72	8433	1 - 465	15 - 479	T62223.
HLYDX40	8434	1 - 447	15 - 461	H97055.
HLYDV57	8435	1 - 196	15 - 210	AA015905, and Z94054.
HLYDU14	8436	1 - 431	15 - 445	T69478.
HLYDT27	8437	1 - 591	15 - 605	AA776723, AA683336, AI767217, and AI286332.
HLYDT09	8438	1 - 399	15 - 413	
HLYDQ75	8439	1 - 1007	15 - 1021	AA203659, and AW241874.
HLYDO45	8440	1 - 430	15 - 444	H52699, AI792315, AI792132, AA602938, AI821784, and AA632549.
HLYDK95	8441	1 - 448	15 - 462	Z97832.
HLYDI03	8442	1 - 374	15 - 388	D29106.
HLYDG74	8443	1 - 468	15 - 482	H13358, Z42104, H17403, and AI016363.
HLYDG42	8444	1 - 394	15 - 408	H48653, and AC005971.
HLYDF07	8445	1 - 531	15 - 545	AI475857.
HLYDD60	8446	1 - 469	15 - 483	AA255936.
HLYDB08	8447	1 - 375	15 - 389	AA704579.
HLYCX70	8448	1 - 743	15 - 757	AW136494, AA975914, W01691, T78992, H82694, and AI696519.
HLYCX34	8449	1 - 507	15 - 521	R93349.
HLYCX18	8450	1 - 444	15 - 458	N23033, N28696, AI417970, AI379543, AI288223, AL119464, AL119457, AL119464, AL134536, U46351, AL119324, AL119401, AL134525, AL119341, AI142131, AL037205, AL119484, AL134902, AL134531, AL134527, AL119355, Z99396, AL119418, AL042433, AR054110, and AR066494.

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HLYCX02	8451	919563	1 - 486	15 - 500	AI149248, and AC004217.
HLYCU59	8452	679219	1 - 647	15 - 661	N50536, N50591, F25082, F31286, AA708834, AI128677, AI141858, AA496237, AI204314, AI087869, F27745, AI096570, W58285, AW044334, F24116, N93239, F34390, AI097157, N77900, AI694918, AI302021, F28502, F24691, AI216592, AA496229, AI215933, AI185557, N91784, AI015748, AA369658, AI383691, F21399, N93026, F35775, AA249321, F28306, W93864, F24386, AI911727, AL031778, AF161698, and AF086496.
HLYCQ43	8453	825509	1 - 776	15 - 790	AA533040, AL096701, Z92542, AC003007, AC002565, AC007308, AC006111, AC008079, AC007193, AC004526, AC006077, AL031283, AC005015, AC005081, AL133246, AC008101, AC004263, AC005399, AC004882, AC006211, AL020997, AP000512, AL133485, AC016831, AC002365, AC004821, AC007225, AL049776, AF095901, AC004382, AC005519, AC002470, AC020663, Z95116, AC004491, AC004851, AL020993, Z97053, AC005067, AP000047, AC006368, AC006950, AC002472, AP000065, AL049869, AC005089, AC006449, AL121658, AC005180, AC002288, AC005280, AL080243, AC005632, AL049872, AC005057, AC005071, AC005972, AC005037, AC007637, AC004966, AC002126, AC005529, U62293, AJ011930, AF124523, AP000689, AF227510, AC007993, AC005225, AL031295, AL022237, AP000115, Z84469, AC002504, AC005839, AF196779, AC004084, AC007386, AC004859, U91321, and AC005756.
HLYCP63	8454	856424	1 - 354	15 - 368	AA572949, AI808652, and AI911457.
HLYCO03	8455	923844	1 - 658	15 - 672	AA131813, AA131743, AA255495, AA256703, and AL021978.
HLYCM14	8456	657589	1 - 387	15 - 401	R95898, AI719970, AF130247, and AF165138.
HLYCL69	8457	914887	1 - 495	15 - 509	H81370, AA156982, and AA045946.
HLYCF51	8458	725067	1 - 435	15 - 449	T99595, and AI563950.
HLYCF37	8459	949401	1 - 1327	15 - 1341	AL138431, AL042377, AI871691, AI423034, AI419419, AW020150, AI380617, AI801479, AI440117, AL043052, AL044489, AW237905, AI904840, AL118843, AA282951, AW020094, AA225406, AL041375, AW021399, AW272294, AL037910, AI066646, AA551519, AW268322, AI279417, AI800426, AL135357, AA594157, AL138455, AA713946, AI242011, AI635028, AW238712, AI479148, AL041924, AA714110, AA760655, T05118, AI054418, AW275432, AL110373, AI356440, AA720582, AA584765, R98002, F30310, AA286836, AI554471, AA847395, AI445224, AI049643, AI095197, AI270177, AI032875, AA654874, AA808153, AI955029, W02749, AI086646, AW340905, AL042753, AI445297, AI755202, AL022165, AC002558, Z86090, AF205588, AL035420, AC006965, AC004832, AL022721, AC005779, AC005088, AC002563, AC005005, AF196779, AC004987, U91323, AP000116, L78810, AC007283, AC002991, AC010077, AC002477, Z99716, AC005527, AC005409, AP000042, AL022238, AC004383, Z95116, AL035405, AC006480, AC004813, AC002430, AC006211, AC005081, AP000045, AC007899, AC004858, AL096791, AC005291, AC006441, AC007055, Z95114, AC007384, AC002369, AC002401, AC005519, AL008731, AC020663, AC004874, AL023584, Z82206, AL031005, Z84487, U47924, AC005940, AC005180, AC004662, AL008582,

HLYCC19	8460	668745	1 - 472	15 - 486	AL121603, AC004033, AC002288, AP000311, AC006312, AL109798, AC005225, AL049872, AC005015, AF001549, AC005365, AL136295, AC005971, AP000289, AC007934, Z84466, AC005871, AL031311, AC005086, AC005902, AP000110, AC006241, Z85996, AC004883, AC005071, AC004125, AC012384, AP000692, AL031228, AF001548, Z98036, AC007193, AC005072, AL035659, AP000117, AC007563, AC003663, AC005529, AL050318, AF047825, AC004953, AL109827, AC002044, AL022318, AC004703, AF017104, AC002554, AC005663, Z93244, AL032821, AC007225, L44140, AC005829, AJ003147, AC006948, AF038458, AC005911, AC006121, AC006511, AL020997, AF053356, AL031597, AC002504, Z98743, AC002394, U95739, AP000501, AC006323, Z94056, AL008726, AC004084, AC004520, AL122020, AC005006, AC007057, AP000313, AL031680, AC005666, AC004814, AC005726, AL109952, AC004685, AF024533, AC002565, AL049552, AL008718, AC005696, AL031281, U91321, AP000252, AC005207, AL031667, AC004408, AC005037, AC004492, AL022311, U96629, AC016830, AC006285, AL133163, AC007216, AL021977, AP000030, AC002314, Z82203, AL049779, AC007676, AF129756, AL132712, AP000356, AC005800, AP000050, AC004876, AL121754, AC004851, AC005695, Z77249, AC004672, AP000103, AL034421, AL031846, AL080317, AC005900, AC005484, AC005332, AC006255, AC004263, U62317, Z98304, AC002544, AC004878, AL023653, AC005190, AL049694, AC002365, AF134726, Z93017, AL121655, AC006538, AF111168, AP000211, AF030453, AC006449, AC000052, AC005730, AL022334, AC004583, AC003015, AC006014, AC005933, AL021918, U91326, AC003029, AC004859, AL035587, AC002375, AC004686, U95090, AL009181, AC007386, AL078581, AL049780, D88270, AC007298, AC003072, AP000167, AC004881, AL049856, AC004765, AC004560, AC004139, AC007686, AL109984, AC004966, AC004991, AC003043, AP000301, AL049869, AC004983, AL022315, AC005520, AF001550, AC005500, Z98742, AL035455, AC007151, AC002551, AC010072, AC007227, and AC007731.
HLYCB86	8461	785544	1 - 444	15 - 458	H53582, and AP000692.
HLYCB11	8462	967162	1 - 573	15 - 587	R78255.
HLYBX91	8463	790234	1 - 764	15 - 778	AA149546, AA115127, AI417248, AA114945, AI283409, AA164347, and AC006504.
HLYBV44	8464	485853	1 - 479	15 - 493	AA262444, AA210704, AA262445, and AA825796.
HLYBN17	8465	463988	1 - 519	15 - 533	AA259030, and AA741004.
HLYBM44	8466	715879	1 - 442	15 - 456	H52816, and H52779.
HLYBJ17	8467	664101	1 - 415	15 - 429	T66013.
HLYBH84	8468	856444	1 - 486	15 - 500	AL046592, W26468, AL039255, AB023228, and AL080133.
HLYBH68	8469	586582	1 - 684	15 - 698	
HLYBG85	8470	783508	1 - 472	15 - 486	T98972, AI052248, AA770344, and AI862542.
HLYBA50	8471	880734	1 - 556	15 - 570	AA827695, and AA833754.

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HLYBA06	8472	935611	1 - 527	15 - 541	AA736563, AA642445, AA838190, AA724333, AA669153, AA380354, AI537772, AI114701, AW439555, H18914, AL119800, AI950671, AW151713, AW302909, AA665146, AW021161, AW304580, AW440545, AW301385, AA704393, AA832077, L35667, AC006538, AP000556, AP000557, AL009031, AF135187, AC005612, AL136297, L76568, U07562, AC007199, Z85987, AP000065, AL050348, AL031714, AC004020, AC006285, AC002326, AC005815, AL133239, AC016025, AC006126, K02579, AC003070, AC004975, AP000509, AL033523, AL031279, AP000690, AC002119, AC002301, AC005211, AF207550, AC004262, AL033517, AC005071, AP000359, AC007128, AC005933, AL024498, AC004051, AP000208, AP000130, U89337, AL031281, AC005952, AC005005, AC004590, AC004017, AC012083, AL022322, AC004887, AF007544, AL133102, AL049636, AC004832, AP000691, AF196969, AF217403, AC005519, AL035684, AC005067, AF111169, AC005377, AL022332, AC004983, AL022330, AC005324, Y07848, AL031664, AC005901, AC004813, AL079304, AC003969, AC005783, AF067844, AL020996, AF200465, AP000030, AC000026, AL024474, AC007639, AC004659, AC007637, AP000553, AL008721, AP000246, AC002059, AL050341, AC004751, AL109802, AL022100, AL080313, AP000134, AL079301, AL024508, AL021155, AL022237, AC004458, AC004694, AL022333, AC005730, AL079301, AC005484, Z77249, AL009179, AL049795, AC005907, AL096794, AL008582, AL023575, AC005484, Z77249, AL009179, AL049795, AC005907, AL096794, AC006047, AC006509, AP000695, AC012384, AC005756, AC006211, AC007686, AC006013, AL034451, AL139054, AC005585, AL031680, AC005702, AC005081, AF031078, Z99716, Z84466, AI031663, AC004235, AB022785, AL031297, AF030876, Z82189, AC005578, AC002476, AP000008, AC005379, AC004921, AL049611, AC005940, AP000697, AL049712, AC004985, AP000967, AC007011, AC007546, AF030453, AC002070, AD000671, AC005799, AC002565, AL008734, AC006071, AC007790, AC007899, AC004889, L44140, AC001227, Z86090, AP000704, and Z97989.
HLYAX75	8473	767225	1 - 342	15 - 356	AC004242.
HLYAX32	8474	699337	1 - 188	15 - 202	AI926931, T92757, and AC004984.
HLYAU15	8475	782335	1 - 570	15 - 584	AA693492, AW404616, W15342, AA081452, T87195, AA360189, AI984687, T87282, and AL117352.
HLYAS35	8476	856469	1 - 430	15 - 444	AA703693.
HLYAR25	8477	678179	1 - 470	15 - 484	AA193337.
HLYAQ92	8478	792770	1 - 388	15 - 402	AI557306, AI623716, AA831121, AA687968, AA768629, AI458826, AI280154, and N42105.
HLYAQ70	8479	757235	1 - 793	15 - 807	R93501, R91736, R92164, and R93500.
HLYAQ69	8480	754229	1 - 329	15 - 343	R38112, and AL109679.
HLYAN68	8481	815950	1 - 365	15 - 379	AL109628.
HLYAN21	8482	854034	1 - 330	15 - 344	
HLYAN10	8483	964834	1 - 651	15 - 665	AA487424, AA578890, and AI524037.
HLYAL58	8484	736097	1 - 593	15 - 607	H10627, and R15002.

HLYAL22	8485	856473	1 - 443	15 - 457	AA847181, AA470533, AA484373, AW243954, AI821918, AI821881, AI268334, AI268336, AI805363, AA191659, AA507912, AI470431, AA583218, AA715805, AA583229, AA600869, AA605272, AL038936, AI065038, AI805547, AA683238, AA527209, AI470437, AI500453, AI250083, T60681, AW002350, AW102846, AA468022, AA501718, AI932599, AW277171, AA757775, AI801482, AA326356, AI460009, AI908093, AA811208, AL079683, AI469599, AA947454, AA351235, AA714110, AA578907, AA308328, AA420998, AI817976, AA421078, AI669046, N84446, AA651632, AA492391, AA469451, AL031228, AP000512, AL035530, AC002314, AC000003, AC007666, AL031005, AC005387, AC004821, AL050332, AC005231, U07561, AC005089, AC005015, AL021366, AC005919, AL133245, AC007225, AC005041, AF165926, AC007686, AC005971, AF207550, AC007364, AC005480, Z83840, AC002418, AC005066, AC004806, AC004659, Z95114, AC005102, AL139054, AP000553, U85195, AL133448, M63796, AC004148, AL049776, AP001137, AC007536, AC004972, AC005071, AL135744, AC005250, AP000557, AC006270, AE000658, AC004560, AL096703, AC004386, AL031848, AP000348, AC004098, AP000347, AC004858, AC002073, AL009181, AF053356, AC005034, AC004804, AP000688, AC004878, AC005324, AL049795, AC016025, Z93017, AC005399, AP000359, AC004019, AF129756, AC006064, AL031597, AC005330, AC020663, AC004883, AC005412, AC003041, AL049839, AC005393, U95742, AC022476, AP000010, AP000152, AC004895, AC005519, AF111168, AC007066, Z97054, AL022476, AC002558, AC007216, AL031680, AL049745, Z84474, AP000146, AP000337, U47924, AC004638, AC006285, AC005410, AL022724, AL050338, AL031777, AC005880, AP000117, AL022238, AC004797, AL031283, AL031587, AL031055, Z92542, AC007387, AC009247, AC004967, AL031311, AC007050, AC005484, AC005291, AC002126, AL080242, AF069489, AC002470, AL024507, AC002350, AL022237, AF109907, AL031662, AC004913, AJ003147, AL021707, AF196969, AC002563, AL022316, AC004381, AP000263, AC002312, AC004760, Z93241, AC006130, AL035450, AC004912, AC000353, Z84469, AL078581, AF031076, Z86090, AC005215, U29953, AC005740, AL135783, AC007308, AP000556, AL117354, Z85986, AL049766, AC006315, AL022320, AC006312, AL121653, AC003664, AL049569, AC004755, Z99716, AC000079, AC004848, AL049761, AC002553, AC002565, AL034379, AL132987, AP000692, AD000812, AP000087, AC000026, AC004813, AC005921, AL008720, AL031668, AC005500, AC004167, AC005225, AL117258, AC004998, Z99128, AC003029, and AL121934.
HLYAL11	8486	967173	1 - 327	15 - 341	AA809368, AW190881, and AI240461.
HLYAK36	8487	708028	1 - 356	15 - 370	T92768, and AA682689.
HLYAK34	8488	421604	1 - 430	15 - 444	AA013385, W96162, H84095, AA059069, AA054036, H84089, H86124, AA018232, AA018236, and AA058598.
HLYAJ49	8489	723039	1 - 422	15 - 436	W24486, C06267, R42858, AA978262, AA505146, AI636820, AI143214, AA045249, AI677860, AA491378, AA255801, and AL031297.
HLYAG59	8490	888232	1 - 427	15 - 441	

HLTHS37	8491	708613	1 - 789	15 - 803	T84485, and T84484.
HLTHS02	8492	856560	1 - 346	15 - 360	T81238.
HLTHC37	8493	708620	1 - 625	15 - 639	R51493, and AI702381.
HLTGT83	8494	780903	1 - 446	15 - 460	R58966, AW173238, AW188064, AA847255, and AI808879.
HLTGT36	8495	708027	1 - 863	15 - 877	AW131623, W69435, W69518, AW020239, AW449813, AI381962, AW166061, and AB020725.
HLTGS17	8496	662409	1 - 490	15 - 504	H66393, AA077817, AI357551, AA342901, F19258, AI914706, AW074398, AI561335, F31204, AA228329, AA515128, F37286, N71724, AA368745, AA077952, AI886176, AW276435, AA654627, AA714140, AW406659, AA304977, H55859, AI249997, AI305547, AI553983, F29989, AI610159, AI184226, AI345518, N23649, AA584749, AI613280, AA443065, T71998, AI284640, AA580662, AA650244, AW265654, AI003734, AI989742, F17518, AA340003, AL041368, AI287528, AI349874, F28576, AI358229, AI061334, F36273, AW438643, AI569086, AA515224, AI469172, AW406755, AI471481, AI298281, AW270284, AI365988, AA601270, AI557323, AA578154, N43757, AI473090, AA879053, AW151884, AA743956, AW337985, AI801600, AI951928, AI079910, AI286264, AW339687, AA299601, AI872421, AW130799, AI951889, AI445436, T12272, AI890052, AA127636, AL138265, AA450199, AI963786, AI635272, AI708009, AI587006, AA729264, H64560, AI299050, AA341228, AW340844, AI345675, AA665192, AW102955, AI921649, AL079645, AW021747, AI345681, AW168433, AI225141, AW022046, AI801591, AI344844, AI274692, F33566, AA658235, AI807372, AA641103, N25296, AI168185, AI421213, AW274349, AI376100, AI816537, AA745560, AI433187, T06556, AA295899, AW157005, AI824562, AW188544, AA501344, AA745431, AA745410, AI015912, AI499503, AA747472, AI028510, AA483204, AI471464, AA758934, AA605274, AW303196, AL042856, AW301350, N69962, AA626637, AI471487, AA558269, AW074059, AF177861, AA776609, AI688846, AI356904, AI049634, AI340453, AI922654, AI564284, AI537955, AA176924, AC004142, U02048, L13709, M87918, L13713, L13714, AC006379, AC006241, AF002991, AC007488, AC006221, U52427, AL096775, D83989, AC004949, S42659, AC005003, AC005944, U02058, M87919, M87923, AL023284, AC006597, AC004027, AL121603, X55932, AC005722, AL023879, AC005485, U18393, AL035494, AC005225, AC002564, AF077058, Z50860, AF053356, Z49237, AL023807, AP000432, AC005091, AC004998, AC005332, AL050312, S70694, AC002429, AC002347, AC006076, AP000082, AC007750, Z84721, AL031005, AC006538, AB020865, AP000346, U14702, AC009225, U95742, AC002059, AC005771, AC004232, AE000662, U02063, AC003681, AC007226, AL109865, L48472, AL049871, Z83849, AC004028, M94081, AP000431, AC007681, AC005694, AC007917, X55922, AL049829, AI049759, AL050333, AL096702, AL121653, AC004236, AC003954, AC005237, AC005324, I51997, AC009247, AC005032, Z97183, AL022318, AL121658, AC005610, AC005913, AC004765, U80017, AC002984, AC004927, AL078614, AP000128, AP000206, U52112, AP000351, AC004638, AP000114, Z83840, AC005527, AC006537, X55926, AL034400, AC002312, AC002116,

					AC005330, U73634, AC002480, AP000305, AC006312, AC006285, AC004814, AP000474, AF147277, AC007358, AC004813, AC004975, AL035681, U14703, AL035415, AC005249, AL080243, S70697, AC004799, AF001298, Z97989, AL118507, AC016025, AC006160, AC002310, AL023575, AL009181, AL022323, AF045555, X13921, AC004596, M87916, AC002381, AC005529, AC004460, AC005053, AC006255, Z82173, AL121665, AL031427, AC007057, AC006130, U75285, AC006111, Z82975, AL022302, AC005895, Z84474, AJ003147, AL109802, AC010205, AP000047, AP000245, AC002425, AC005777, U14689, AC009069, AF003627, AF121898, AL031665, AC007676, AF006752, AL035703, AC000097, AC005924, AC007298, AC002563, Z68869, AL080248, AC007304, AL133297, AL109807, AL033522, X53550, AC000379, AC006039, AC004645, AL021879, AC006547, AP000503, AC003982, AC006088, AL031257, X55928, AC005681, U18390, AC006197, AC005099, U72787, AC002352, AC007845, AC001531, AC002350, AC007421, L78833, AL032821, AC007102, AL022336, AC007038, AC006120, AC005081, AC002367, AL022326, AP000465, AC006511, U18394, AC016026, AC005261, AC009479, AP001042, AC004242, AC004969, AC002301, AC007076, AC018769, AL049636, AC004851, AC018767, AC004815, AL035086, AL135744, and AC003108.
HLTGR28	8497	693990	1 - 616	15 - 630	H56364, D80166, D59619, D80210, D80240, D80212, D51799, D80219, D51423, D80253, D58283, D81030, D59859, D80193, D80195, D80391, D80188, D80227, D80196, D59889, D59927, D80043, D80269, D80038, D80366, D80024, D59610, C75259, C14014, D57483, D59275, D80022, C14429, D80241, D50979, T03269, D59467, D80045, D59502, AA305409, D50995, D80378, D80164, C14389, D59787, C14331, D80134, C15076, D51060, D80268, D81026, F13647, D80949, D51250, D81111, D58253, D80168, AW178893, D51022, AW179328, C14227, D52291, AW177440, D51079, AA305578, AW178775, AA514186, AW378532, D80251, D80248, AI910186, D80133, AW369651, D59695, AW178762, Z21582, C05695, AA514188, AW352158, AA285331, D80522, AW177501, AW177511, C14298, AW360811, D80064, AW352117, AI905856, AW176467, AW375405, AW177505, AW377671, D80132, C14407, D51097, D59373, AW366296, AW360844, AW360817, AW375406, D80439, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, D80247, D80302, AW352171, AW377676, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, AW360834, D51103, AW179020, AW360841, AA809122, AW178909, AW177456, AW179329, AW178980, AW177733, AW352174, AW378528, AW178908, AW178754, AW179018, D80157, T11417, D80014, AI557751, AW179004, AW179012, AW178914, AW378525, AW179220, D58246, AW367967, D51759, AW177722, AW177728, AW179009, AW178774, AW178911, AW378543, AW352163, D59503, C14077, T48593, AW178983, AW352120, D58101, T02974, D59653, AW178781, D59627, C06015, D51213, AW378539, AW177723, D45260, D80258, C14975, AW177508, T03116, H67866, AI535850, AI525923, H67854, AW378533, AW367950, C03092, AI557774, AW177734, AW177497, D51221, AW178986, D80228, AI525917, C14957,

HLTGP47	8498	719975	1 - 433	15 - 447	AI535686, D59551, D59317, D59474, D50981, AI525920, D45273, C14973, C14344, AA514184, AA598998, D60010, AI525235, D60214, AI525215, AI525227, AC008079, AC007324, AC008101, A62298, A62300, A84916, AJ132110, AR018138, X67155, A67220, D89785, A78862, A25909, D26022, D34614, Y17188, AR025207, D88547, AR008278, AF058696, AB028859, X82626, Y12724, X68127, AB012117, A85396, AR066482, A82595, A85477, AB002449, A86792, AR060385, I19525, A94995, U87250, A44171, X93549, AR008443, I50133, I50126, I50132, I50128, AF135125, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR038669, Y09669, A43192, A43190, AR066490, I18367, A30438, AR066487, I14842, D88507, AR054175, D50010, Y17187, AL050343, AC007124, AL050324, AR008408, AR064240, AR008277, AR008281, A63261, AC007964, AR062872, A70867, AR016691, AR016690, U46128, A64136, and A68321.
HLTGO89	8499	786674	1 - 594	15 - 608	AW393850, AA194696, and AW274557.
HLTGN92	8500	791185	1 - 358	15 - 372	R24848, and Z43303.
HLTGA40	8501	710728	1 - 401	15 - 415	R83296, H61528, R06428, and AA497003.
HLTEZ30	8502	960911	1 - 338	15 - 352	H12953, AA436993, and AA426378.
HLTEZ19	8503	671610	1 - 705	15 - 719	T85564, T84409, AA361578, and R08443.
HLTEX27	8504	927578	1 - 336	15 - 350	N98660, AI052555, AI033178, R16888, and AA437100.
HLTEV66	8505	772965	1 - 506	15 - 520	N95142.
HLTEP45	8506	723375	1 - 524	15 - 538	AA046570, AI912976, AI810637, AI400892, AI420896, AA317499, N44648, AI085349, T49602, AI825760, AI650498, AA046705, AA782778, H05628, and H17485.
HLTEM25	8507	678685	1 - 508	15 - 522	AA159675, and AC007068.
HLTEG51	8508	494330	1 - 605	15 - 619	R14032, AA825482, H95342, H70614, and AC004921.
HLTEG37	8509	417243	1 - 363	15 - 377	W40567, AL040311, AA905330, AA677615, AW205363, and D80009.
HLTEC83	8510	574630	1 - 213	15 - 227	
HLTEC35	8511	574632	1 - 266	15 - 280	
HLTEA20	8512	669900	1 - 582	15 - 596	AA007473, W93011, Z44985, AA430251, and N71668.
HLTDR43	8513	715529	1 - 664	15 - 678	AI953354, H16401, H00613, F09067, R82764, Z38624, and T17430.
HLTDJ17	8514	577379	1 - 657	15 - 671	W56369, H84793, AA913919, AA485021, AC007387, AC006543, and AC006544.
HLTDH96	8515	796560	1 - 275	15 - 289	N72412, and AI689177.
HLTDG59	8516	739699	1 - 340	15 - 354	T81367, AA372287, R50286, W30782, and AL137669.
HLTDG30	8517	693329	1 - 345	15 - 359	H85024.
HLTDB38	8518	456860	1 - 418	15 - 432	R95058, and R83706.
HLTCZ55	8519	732385	1 - 312	15 - 326	AA429774.
HLTCX39	8520	705648	1 - 432	15 - 446	AA157834, and AF095703.
HLTCT77	8521	772458	1 - 356	15 - 370	H84601, and AW379855.

HLTCR77	8522	772457	1 - 373	15 - 387	H84886.
HLTCR11	8523	967559	1 - 335	15 - 349	AA548022, and AC005740.
HLTCM59	8524	442563	1 - 1173	15 - 1187	AA633942.
HLTCI43	8525	715530	1 - 487	15 - 501	R12467, and AB020672.
HLTCI11	8526	967541	1 - 303	15 - 317	AI150147, and AI362692.
HLTCH41	8527	507362	1 - 353	15 - 367	R67858, and AC008033.
HLTBU47	8528	720662	1 - 342	15 - 356	H54393, AA476547, C02267, and AA445910.
HLTBU44	8529	522741	1 - 435	15 - 449	
HLTBS07	8530	954407	1 - 235	15 - 249	AI569948.
HLTBF58	8531	735194	1 - 364	15 - 378	H38593, AA361336, Z99571, and Z83820.
HLTBF56	8532	907024	1 - 513	15 - 527	AA521184, AA766096, AA743785, and AA361334.
HLTBA68	8533	753857	1 - 408	15 - 422	R18278, R17529, AA361271, AA019429, T66081, F12334, and AW025272.
HLTBA41	8534	712721	1 - 653	15 - 667	W78875, AA463793, R10150, AA814668, AA779112, R10157, AI351903, AA361232, and AC004554.
HLTBA35	8535	707243	1 - 366	15 - 380	AA150350, and AA361174.
HLTAM07	8536	954419	1 - 653	15 - 667	AA282169, AA987588, and AA360588.
HLTAK57	8537	735163	1 - 213	15 - 227	N45611, and AA360686.
HLTAA39	8538	710361	1 - 635	15 - 649	W55847, T65532, F11980, AA255754, AA360399, and N45924.
HLTAA27	8539	684649	1 - 377	15 - 391	R73095, R26859, R73096, AA360390, and R27089.
HLMNU01	8540	916641	1 - 484	15 - 498	AA828265, and AW262531.
HLMNQ18	8541	666544	1 - 475	15 - 489	AI076363, AA001640, and AA001228.
HLMMZ09	8542	575837	1 - 458	15 - 472	
HLMMT20	8543	830074	1 - 206	15 - 220	N55558, AA280889, AA095152, T90017, and AC008124.
HLMMR90	8544	575905	1 - 602	15 - 616	T39190, and T40464.
HLMMK61	8545	532605	1 - 492	15 - 506	
HLMMK50	8546	724485	1 - 196	15 - 210	W42656, and AA077151.
HLMMF94	8547	811320	1 - 372	15 - 386	R22164, AI248937, AI084822, AI249135, and AA897402.
HLMMF01	8548	916816	1 - 496	15 - 510	AA837202, and Z82189.
HLMME43	8549	714439	1 - 619	15 - 633	AA716681, AI361749, N77694, H65481, AA005280, H64888, AA005196, N58327, AA747865, R94521, AA677973, AI032897, R93670, H73820, H54422, and AC012627.
HLMIY59	8550	878870	1 - 342	15 - 356	AL120141, AF111168, AC005081, AL109798, AC004883, AL022476, AC006441, AC005071, AC005796, AC009263, AC002369, AL049569, AC006064, AL050341, Z98946, AC002430, U62293, AC006312, AL109628, AC006211, AC005189, AC005736, AC007384, AC006023, M29930, AC005057, AC004638, Z81364, AP000689, M29929, AP000248, AC005317, Z68756, AL023553, AC002400, AC004019, AL031289, AC007151, AL031686, AC007011, AP001053, AC004990, AC005225, AC005049, Z93930, AC005562, AP000210, AC005089, AC005332,

HLMIG57	8551	1 - 473	15 - 487	AL121658, AC004477, AC004491, AC004983, AF053356, AC000052, AC005015, AC000025, AF207550, Z81365, AC003029, AC002551, AC004656, U91318, AC003025, AC004686, AF088219, AL049874, AL034420, AC006275, AC004033, AL009181, AL096678, AC002992, AC004797, AL121653, Z99716, AC005921, AL133485, AL008582, Z93020, AP001054, AL031432, and AF117829.
HLMHW80	8552	1 - 432	15 - 446	R81607, and U34932.
HLMHT61	8553	1 - 445	15 - 459	H71175.
HLMHT49	8554	1 - 448	15 - 462	R70530, and AC006392.
HLMHL66	8555	1 - 353	15 - 367	T71093, T71030, AC004033, and AC007050.
HLMHL03	8556	1 - 171	15 - 185	AA313128.
HLMFU46	8557	1 - 430	15 - 444	T49381.
HLMFL88	8558	1 - 744	15 - 758	AA033893.
HLMFG79	8559	1 - 220	15 - 234	AA884878.
HLMFE91	8560	1 - 439	15 - 453	AA229869, AA368329, H48017, AI065031, AL048002, H50031, AI348597, AA056206, H16875, AA704806, AI982994, AA374797, AI251809, H44137, AA303289, T61362, R79396, AI591334, F23268, AA985145, AII14755, AA322161, AW377926, H73306, AI246386, AW377843, AW377863, AW193523, AI871691, AA361244, AA833828, AA640823, AW190277, AA588099, AA526337, AA424280, AI254153, AI252828, N71545, H91047, AI571094, AW089016, F26285, AI281622, AA670108, T54173, M78137, T40210, W27084, AL047666, AI476460, AW377907, AW377921, AI954464, AW377912, AA205911, AA071151, AI811319, AI337065, AA218835, H86579, AI627868, AW390278, N30650, AW081503, AW390250, AI254937, AI816537, AA425924, AA325466, AA310354, AI815583, AII30709, AI536858, AI537995, AW071109, AA613189, AA018923, AA012829, N47820, AW148775, AI814682, AI291439, AA351868, AA836097, AI376454, AI298079, N76059, AA831997, AI018029, AI909640, M77900, AW390555, AA298783, F31634, AA584756, AW023376, AI831172, AW341955, AI475758, AI270149, AA424008, AW247089, AA287502, AA550989, R70884, AA320095, C06028, AW029626, AI888050, AI251380, AW377894, AA181479, N91747, AI251949, AI252207, T90931, AI817108, R48131, AII60875, AI024439, AI251996, AI252979, AI254626, AI284684, AW272640, AA668220, AI499376, AI251353, AA515723, R70883, AI251298, AI255012, AW438551, AA565911, AI254440, AW377961, T48770, AW377862, AI251598, AA564753, AA700664, AI252933, AI469468, AA085554, AI223508, AI254658, AW440451, AA985194, H57324, AI241970, AW086319, AA282530, AI819391, AI627917, AI246059, AI255003, AA372389, AI254673, AA650455, H30595, W38437, AW086334, N92697, H44537, AA071045, AC006211, Z82176, AL035551, AC005014, AB000462, Z68279, AP000689, AC007425, AL031120, AF075037, AC000353, AC004216, AC004033, AC006948, AC007731, AC005500, AP000532, AC004611, AB003151,

HLMFE79	8561	531213	1 - 388	15 - 402	AC004223, AL031643, AC005753, AL139054, AL035249, AL009181, AL009051, AC006014, AC004797, AC006101, AL117355, AP000362, AL031595, AC005599, AL122020, AC005488, AC006465, AC009308, AF121782, AC004687, AC006270, AC006165, U81833, AL096767, Z82206, AC007510, AF196971, AP000300, AL031662, AC005245, AL049829, AC003690, AD000812, AP001063, AP000349, AC002126, AL049611, Z84469, AC007631, AC004832, AC006961, AC008124, AC005412, AC008498, AC000116, Z95152, AP000355, AL022165, AC007253, AC005971, AB023051, AC005736, AP000045, AP000113, AB014088, AC004190, AF024533, AP000516, Z84474, Z98044, AC006430, AB025285, Z49155, Z74581, AC007279, Z82215, AL022336, U96629, AL079340, AF113694, AL031721, AC010077, AC004996, AD000092, AC002563, AC005288, AL035461, AC003983, Z49862, AC002082, AC005620, AL121590, AC004263, Y18000, AC004882, AC005291, AC005529, AP000512, AC000070, AF045450, AL021546, AC004819, AL035588, AL034423, AL024498, AC007227, Z83844, AF134726, AC004531, AL031054, AC005859, AC006441, Z84572, AL050332, AL031258, AC000046, AC000038, AC003963, AC004973, AC003007, L78810, AC007285, AL117329, AP001172, AC004383, U52112, AC007637, AC005632, AC004381, AC005332, AC007784, AL121852, AC004918, AP000306, AL031708, AF195658, Z82182, AP000523, Z81308, AP000047, AL096774, AP000194, AP000115, AB020873, AL049780, AC007055, AC005754, AC004960, Z96074, AC007263, AC005257, U73630, AC005775, AP000558, AC006578, AL022333, AL049758, U07561, AC005257, U73630, AC002407, AL109807, AL034420, AL031673, AC005484, AL049759, AC005519, AC006071, AC002407, AL109807, AL034420, AL031673, AC005972, U82828, AC004025, AL109865, AC005520, AC006417, AF003529, AC009516, AC005972, U82828, AC004025, AL109865, AF109907, AL049569, AC004253, AP000256, AC004009, AC004854, AP000098, AL031428, AC002364, AL035667, AL021940, U91318, L44140, AC005610, AC005365, AC007671, AC005041, AC002352, AL109657, AP000258, AL121655, AB014083, AC004207, AC006599, AC005065, AL109963, AP000515, AL080276, AC004991, AC005833, AL021707, AC005880, AC005399, AL031584, AL023284, AL035405, AC006449, AL035091, AJ246003, AC002310, AR004690, Z93241, AC006953, AC007192, AL008707, and AL031447.
HLMFE17	8562	531218	1 - 137	15 - 151	
HLMFD62	8563	754076	1 - 322	15 - 336	AI797595, AW007013, AI498775, AI498624, H09241, AA935139, AA948609, R44566, and Z39116.
HLMDX01	8564	921546	1 - 401	15 - 415	AA232886, and T81241.
HLMDH08	8565	960055	1 - 814	15 - 828	AI423013, AW058211, AA700642, AW027855, AI709117, AI673385, AW339470, AI161207, AA694181, AI276286, AI216865, H54304, H54097, T99459, T98863, AA669188, AW386076, and AB033044.
HLMDC26	8566	684911	1 - 452	15 - 466	N23041, AW380413, AA078090, AL048960, N28704, AC005088, AF030453, and AJ007798.
HLMCL59	8567	529908	1 - 586	15 - 600	AA742279, N80170, W03637, and AL031289.

HLMCJ55	8568	741635	1 - 425	15 - 439	N77018, AI916826, AW236861, AA429686, and AI623392.
HLMBX91	8569	879359	1 - 846	15 - 860	AA515440, AA601425, AW089625, AA659170, AA620554, T47745, AA516058, AI056526, AW102811, AL040382, T06754, AI110760, AA593471, AA523833, AA483204, AW440545, AI243789, AA961035, AA502104, AA633892, AW263415, AA640277, AF190465, U52112, AC005412, AC004019, AC003684, AL031283, AC004832, AC004223, AC007216, AC005696, U95742, AC004815, AC005231, AL031283, AC004966, AC005015, AC003101, AC004383, AC003695, Z97054, AC005081, AF109907, AP000045, AC005808, AP000557, AC007546, AC009516, AC008101, AF001549, AC002470, AF196779, AL021391, AC002425, AC007308, AL031311, AC009247, AC007055, AC002350, AL049761, AC007686, AC002312, AF196969, AC005071, Z98941, AC007666, AL117258, AC007225, AC004841, AC008079, Z83844, AL035413, AC004491, AC007011, AL049780, AC006530, AC005529, AC002558, AC006511, AC003043, AC002477, AF165926, AC005031, Z84466, AC005529, AC002070, AL080243, Z85986, AC002565, AF053356, AC003070, AL022476, AL049709, U80017, AC002300, AC003037, AC005295, AC007731, AC004382, AC006088, AF038458, AL035587, AC005041, AL035659, AC004983, AL049869, AL035458, AP000555, AC005291, AC005102, AJ003147, AC005488, AC006312, AC007676, AF134726, AC002996, AC007151, AC004922, AC003982, AC007227, AC006241, AL096702, AC005520, AC005500, L78833, AC008044, AC002543, AC004878, AC000353, AC004895, AL133353, AL121652, AP000704, AC002375, AC004985, AL109758, AL035455, AC002492, AP000134, AP000212, AC004596, AC004236, AL021977, AL022316, AC005280, AC002476, AC000025, AL031276, AC004797, AC002394, AC005005, AC006064, AC006285, U91323, AC008115, AC005399, AC005519, AL049829, AL008718, AC004884, AF217403, AC005722, AC002301, AL139054, AF111168, AL049776, AL020997, AC005837, AC005839, AL023803, AL033392, AL109984, AC007537, AC005920, AC005480, AP000553, AC008372, AC005702, AC006449, AL034420, U47924, AC008116, AL049540, AC004659, AC007298, AC004887, AC005902, AP000030, AC005736, Z99128, AC006512, AC007226, AP000088, AL121655, AC007421, AL034549, AC005921, AC006480, AC005899, AC000052, AC002302, AP000011, AL035450, AC004685, AC005695, AC016025, AB003151, AL035681, AC005778, AC004967, AC006132, AC006487, AL121658, AC006430, AC007919, AC006014, AC004253, AC005225, AL049697, AC004000, AP000115, AC002045, AC006023, AP000556, AL031681, AC004821, AP000039, AC004645, AC004858, AC006111, AC006001, Z82189, AP000501, AL008726, AP000047, AC004150, AL021155, AP000345, AL132712, Z97056, AC005821, U91326, AC005209, AC016830, AC007371, AC005004, AL031670, AC004882, AL096701, AL031289, AL121825, AL050318, AC007387, AP000065, AF047825, AC007688, AL121603, AC006071, AC005585, AL023807, AC005180, AC004149, AC006121, AC005562, AC005940, and AP000248.
HLMBQ54	8570	730952	1 - 454	15 - 468	H72138, and AA594731.
HLMBQ48	8571	560848	1 - 400	15 - 414	AA505108, and N72195.

HLMBN04	8572	1 - 340	15 - 354	T77272, F13388, and AF052103.
HLMAV56	8573	1 - 540	15 - 554	AA234263, and AA262980.
HLMAI82	8574	1 - 100	15 - 114	
HLMAE86	8575	1 - 543	15 - 557	AA056759, AI870884, AI184256, AA287354, AL048819, AA780049, AA658119, AW083033, AW131126, AA812201, AA523491, AI955653, AA102847, AI420177, AI658829, AI860578, AA058437, AW439401, AA700175, AA527995, AW439499, AI299102, AI471747, AA102846, AI767122, AA884538, AI859388, AI813491, AA004770, AA973515, AI016255, AA452810, H22945, AI686317, AW263434, AA074105, AA452925, H09535, N78501, AI865742, AA847674, AI916285, AA310886, AI263292, R41868, AI868055, AA809214, AW439033, AA994606, AA682833, AA004702, AA287405, and AI597574.
HLLCD85	8576	1 - 515	15 - 529	AI478306, AI161172, AA554537, W68698, AI380170, AI085355, AI796561, AI571389, T70262, AA188734, N92493, AW385352, AI216082, AA188572, AI141460, AI357387, AA489805, AA398636, AF108460, AF108461, AC020663, AF108455, and AF108454.
HLKDC76	8577	1 - 1087	15 - 1101	AA161515, AW250345, AW364752, AW248279, AA173349, AA410730, T09386, N28872, AA281341, N33896, AA312252, AA160094, T08124, Z45256, F07609, AA452741, R69813, AA380203, AA256741, N57212, Z43138, AI017337, F07095, T32695, W26853, T35905, AW204528, R14455, AI948689, AA682474, AI378863, AA378888, W27662, AI935695, AI928405, and AA910271.
HLKDB78	8578	1 - 459	15 - 473	AW298414, N39216, AW004711, AW051893, AI375134, AI917477, AI652977, AI291261, AW002993, AW003527, AI016680, AI676093, AA668759, R49090, AI351891, AI498667, AI203099, AA906803, AI356617, AI950955, Z40923, AI783643, AI418750, AI189132, AF069532, and Y16521.
HLKDB02	8579	1 - 458	15 - 472	T55231.
HLEAN30	8580	1 - 442	15 - 456	
HLCDA67	8581	1 - 619	15 - 633	
HKBBV11	8582	1 - 528	15 - 542	AA249141, AA317762, AA323439, R68885, AA657752, AA845804, AA443184, AL138096, AC006998, AC005406, AL022396, AC003029, AC004381, AP000008, AP000704, AL021367, AL031595, AC004106, AC008012, AC004087, AP000503, AF134726, AL034421, AL031274, AC002528, AC006536, AC006077, AL133246, AL034371, AL031733, X54486, AL031650, AC000052, AC004033, AC007731, AC005500, AL034345, AL022098, AC004832, AL079299, M26434, AC004231, AC004383, AC005243, AF099810, AC003101, AC020663, AC005354, AC005722, and AC005261.
HKBBP05	8583	1 - 539	15 - 553	AI436366, and H81947.
HKBAL06	8584	1 - 527	15 - 541	AI039905, AA826224, and AA911597.
HKBAJ12	8585	1 - 648	15 - 662	AA742235, AA742234, AA769592, AA828385, and AA804905.
HKBAB02	8586	1 - 584	15 - 598	AA524543, H28219, AA482728, and AC006486.

HJUBA59	8587	1 - 631	15 - 645	AI971330, AI266060, AI870369, AA025208, N48096, AI673475, AW058505, AI864572, R08870, R38658, F10568, R08976, AI887853, AI400250, AI810202, and AA701175.
HJTRB51	8588	1 - 486	15 - 500	AA648882, and AA357310.
HJPDK80	8589	1 - 902	15 - 916	AA210877, AI797681, AI970134, W86482, AA070750, AA214621, AA977114, W86632, AA252120, AA902411, AA742986, AA242915, AA579700, AI468181, AA376316, AW015483, AA811628, AI928274, AI799954, AA040813, AA213789, and AF001549.
HJPDK57	8590	1 - 686	15 - 700	
HJPDI16	8591	1 - 343	15 - 357	H29753, AA011703, AI341972, AA477868, AI813605, AA581094, AW027687, AW193238, AW193131, AA101402, AI565781, AI808069, AI475759, AI298622, AI356540, AI148214, AA156318, R50132, AA516279, AI347078, AI161316, W04405, AI635124, AA853039, R222251, N89768, AI248905, AA873149, AI149506, AW088640, AA701646, R39722, H42776, N95630, AI567992, AI591326, AI741983, R70062, W29112, R31096, AA399446, AW405653, AA011503, AW003643, AA628885, AA876220, AW262885, H54242, AW338832, AA353094, AI743581, AA453197, AII88538, W69801, AA282034, AA513733, AA374524, AI088462, H97805, W67620, AW068409, AW368994, AA034935, AA781354, AI933502, W23274, AW374523, R74587, H96595, AW374544, AA477759, AI052491, AA707033, AW051399, AW075651, R92048, AI583545, AI418411, AI888034, AI911293, AW167110, AI735231, AW167100, AI087842, R70016, AA430524, AA535808, H10643, AI828406, AI625243, AA335826, AI921041, AI375407, AW371892, AA775632, AI034439, AA011693, AI572578, AA861696, AI937166, AW075601, AA740399, AI720285, AW292885, H96596, AI525221, and AL035413.
HJPDE23	8592	1 - 231	15 - 245	
HJPDD82	8593	1 - 990	15 - 1004	AA455589, AI091855, AA988340, AA161359, H42568, R07607, AI015867, R07600, R07602, AA441957, AI936472, and AI291961.
HJPCW09	8594	1 - 234	15 - 248	Z44259, H07973, AB015348, AL137622, AL133072, AL133048, AL133040, AJ132440, AJ243706, and AF087481.
HJPCV54	8595	1 - 575	15 - 589	AA402378, AA464262, AI885402, AI829944, AI921923, AW008540, AI074307, AI005213, AI479060, AI091416, AI684266, AW410641, AI924538, AW337968, AW170092, AW028819, AW242087, AA873160, AI362816, AA857987, AA745265, AI991184, AI222764, AI972124, AI161220, AI538743, AA609827, AII39793, AI336176, AI075402, AI829318, AA443894, AI609956, AI598268, AW194155, AI446095, AI096558, AA838514, AA431854, AA873436, AA864636, AW387090, AI241070, W79486, AA704924, AA872815, AI086820, AII39048, AI151109, AA937584, AI028016, AI805600, AI434504, AA770528, AI619841, AI872263, AA394128, AI090476, AW117881, AI348212, AI027063, AI355882, AI074246, AA488987, AI469710, AA576443, AI304813, AA832041, AA477555, W81550, AA460236, AA536177, AI351451, AII87174, AI368869, AA916469, AI635832, AA488766, F37944, AA724420, AII87204, AI359194, AW387107, N95198, AI827052, AI961866, AA632947, AI346208, AI285018, AW169451, AA431853, AI266343, AA897757, N54144, W52694, AW105713,

HJPCS54	8596	1 - 734	15 - 748	AA468707, AA961789, AA973012, AI365011, AA975671, AI860610, F26639, N93383, AI613224, AI276959, AW244117, R72627, AI537125, AA587714, N95718, AI862935, AW196747, AW192153, AW006966, W37484, AI248658, F33861, N23034, AA856643, AW262254, F25207, AI620538, AA931570, AA635625, AI247720, AI371332, AI749096, AW245621, AW300803, AA305218, AA531066, R01124, AA971776, T47328, AA635797, AW438489, AI081520, D19664, H20537, AA092490, H52662, AA551762, AA555138, W25402, AA458500, AW079734, AA577351, AA687321, AI864873, AA622357, H61205, R08599, T96113, AI698803, AA525442, AA897375, AA531532, AA213974, R44367, T30367, R61784, AI865436, AA588105, AW303695, AA477599, AA465145, N83457, AA888543, AA402134, AA456798, AA402983, AI014631, AA885559, AI560327, AA282885, R72698, AI219331, AI718876, AI301761, AA834496, AA350271, and AJ002308.
HJPBP22	8597	1 - 133	15 - 147	N95260, and AI668689.
HJPBA04	8598	1 - 472	15 - 486	AI863962, H87372, AF005418, AF115769, Y12657, and AF199462.
HJPAZ91	8599	1 - 523	15 - 537	AA136250, AI024917, AI017124, and AA730431.
HJPAY56	8600	1 - 221	15 -235	N32734, R67770, AA057568, AA326169, AA322393, R49744, N23508, Z46028, AI360953, R35017, and AF151800.
HJPAX11	8601	1 - 543	15 - 557	AA205091, and AC003002.
HJPAT79	8602	1 - 311	15 - 325	AI985517, and H75687.
HJPAG38	8603	1 - 425	15 - 439	AA278629, AA215509, and AA031467.
HJPAA60	8604	1 - 523	15 - 537	N23069, N25298, N25305, and AA356922.
HJKSC56	8605	1 - 459	15 - 473	AA044789, AW371891, AA297755, AA044810, AI150008, AA993400, and AI420327.
HJBDM21	8606	1 - 437	15 - 451	H48668, H48397, R98819, H48501, AA306570, AI431664, T89386, and AB011178.
HJBDL70	8607	1 - 697	15 - 711	AA306768, T75462, R13593, F13160, AA479890, W22183, C14389, D80022, AA305578, D80043, D59610, C14331, D58283, D80241, AW177440, D50995, D51423, D59467, D80195, D59859, D51799, D80166, D80227, D59619, D51022, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, D81030, D80212, D80196, D80188, AW177501, D80219, AW177511, D59927, C15076, D80269, D80024, D57483, D80038, D80366, C14429, AA305409, D50979, D59889, D80193, AA514188, D80378, D51060, D80268, AW178893, T03269, AW352117, D80045, D81026, D80248, D80522, AW179328, C75259, C14014, D80251, AW378532, AA514186, D80133, AW360811, AW178775, D58253, AW377671, D51250, AW178762, AW352158, C05695, AW375405, AW360844, D80134, D80132, AW178754, AW177505, AW366296, AW360817, AW375406, D80247, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, D80302, AW352170, AW179024, D59373, D80168, AW377676, AW352120, F13647, AW360841, AW179020, AW178909, AW177456, D80439, AW178906, AW177731, AW178907, AW179019, AW179018, C14407, AW178971, D51079, AW378540, C14227, T11417, D81111, AI905856, AW178980, AW179004, C14298, AW179329,

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HJBBG54	8613	728810	1 - 591	15 - 605	AA312262, T83797, AA161328, AA922331, AA679030, AI992290, AI827943, AA431880, AI802124, AI827814, AA431881, AA878982, AA569021, AA862891, AI394363, and Z56903. AA278413, AA232658, AA234388, and AA356464.
HJBBF02	8614	921242	1 - 1153	15 - 1167	T64492, H80456, AA102097, T64635, W24542, AA356419, and AI650492.
HJBBE51	8615	725948	1 - 479	15 - 493	N48203, AI718419, AI825815, AA779543, AA356389, AI089156, and AA970766.
HJBBE07	8616	954376	1 - 459	15 - 473	AA069386, and AA356239.
HJBBD59	8617	739633	1 - 506	15 - 520	HI0612, AA356365, and R38602.
HJBAP94	8618	796835	1 - 526	15 - 540	AA099056, N76005, AA355858, AA099057, and AA339543.
HJACI60	8619	577525	1 - 553	15 - 567	N23583, AA311407, and R70050.
HJACH13	8620	660943	1 - 362	15 - 376	AI675755, AA927858, AA861302, AA766862, AA311232, AI304365, AI004795, AA759118, AW271713, AI052339, AA853966, R37476, Z40307, AW269006, R41401, and AB002296.
HJABZ11	8621	967665	1 - 436	15 - 450	AA445925, AA310604, AA452033, AW275492, and AW026774.
HJABX39	8622	709556	1 - 686	15 - 700	AI916225, AA310505, W79834, and W79117.

HJABQ75	8623	567249	1 - 1088	15 - 1102	
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HJABK84	8624	783237	1 - 657	15 - 671	
HJABK16	8625	667399	1 - 786	15 - 800	

HJABB93	8626	1 - 716	15 - 730	AI525222, D59976, Z30160, AW360855, T02868, AC002302, AR018138, A84916, AB028859, AJ132110, A62300, A62298, AR008278, AF058696, A82595, A67220, AR060385, AB002449, Y12724, X67155, Y17188, A94995, D26022, A25909, D89785, A78862, D34614, AR008443, AR060138, D88547, I50126, I50132, I50128, I50133, I82448, A45456, X82626, AR066488, AR016514, I14842, A26615, AR052274, AR025207, Y09669, A43192, A43190, AR038669, AR066487, A30438, AR066490, AR054175, I18367, D50010, Y17187, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, AB012117, D13509, I79511, A64136, A68321, AR060133, X68127, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, X72378, AR060382, X93549, U79457, AF123263, AR032065, and AR008382.
HJAAZ32	8627	1 - 371	15 - 385	R15729, AA354908, T70813, and N46535.
HJAAV85	8628	1 - 215	15 - 229	H72083, AA452004, AA354988, AW293726, and AL049869.
HJAAR02	8629	1 - 279	15 - 293	AA354831, AI708444, and AA745017.
HJAAO07	8630	1 - 447	15 - 461	AA354395, AA903166, and Y12377.
HJAAC22	8631	1 - 449	15 - 463	AA594156, AA354429, and U73641.
HJAAA83	8632	1 - 660	15 - 674	R20249, AA353931, AA369964, R15221, AA206267, AA035045, H84119, AA375219, AI907126, W28121, and AC005037.
HILBQ12	8633	1 - 346	15 - 360	AA524524, AW026098, AW027704, AI498221, AI418388, AA255552, AA679996, AW295864, AA255570, AA353905, AI683939, AA064723, AA065071, AI347410, AL096755, and U51559.
HILBC52	8634	1 - 320	15 - 334	AA352670, AA766931, AA814879, AA642419, AW298724, AI693480, AA747930, and AL023807.
HILBC17	8635	1 - 465	15 - 479	H47493, R97184, AA352099, and Z94721.
HHEZZ74	8636	1 - 1616	15 - 1630	AA258568, AA464583, AA436480, AA352105, AA954703, AA639707, AA234276, AA436533, AA258487, AI675334, and AW292522.
HHEZT12	8637	1 - 438	15 - 452	AA885355, AA825637, AI537418, AW263128, AI739203, N40091, AA053510, AA917424, AI357099, AA151745, AW373447, AA809481, AI907261, AF181985, AF179867, and AF161373.
HHEZO92	8638	1 - 881	15 - 895	AI857340, and AC004702.
HHEZN61	8639	1 - 698	15 - 712	AI680404, AA456171, AI590551, AI953875, AI082560, AI084107, AI243212, AA279972, AI473813, AI339075, AW418909, AI245568, AA443105, AI078761, T78012, AW243617, AW139270, AA298137, AI274709, AW244160, AA318651, AA593768, T78174, AA630836, AI198099, AI934002, AI392724, AI141198, and AI341327.
HHEYE64	8640	1 - 661	15 - 675	AW392670, Z99396, AL119444, AL119319, AL119363, U46341, AL119324, AL119457, AW372827, AW384394, U46351, U46349, AL119497, AW363220, AL119484, AL119391, AL119355, AL119483, U46350, U46347, AL119443, AL119341, AL119439, AL119522, AL119396, U46346, AL119335, AL134920, AL042614, AL119418, AL037205, AL134902, AL134538, AL043019, AL042975, AL134527, AL134536, AL119399, AL119496, AL134531,

HHEXO05	8641	930794	1 - 1666	15 - 1680	AL134533, U46345, AL042896, AII42139, AL042965, AL043029, AL042450, AL042542, AL042984, AL119464, AL043003, AL119304, AL042551, AL021877, AB026436, AR054110, AR060234, A81671, AR066494, and AR069079. AW361847, H10130, H20868, AI480290, AII93053, R70273, R52259, AI459029, H09428, AA453532, AI907803, AI494444, W24783, AII43500, AL122091, and R26514.
HHEWX08	8642	974405	1 - 516	15 - 530	AW148792, AW276827, AI687260, AI613280, AA579366, AI860013, AI364020, AA577906, AI350211, AW193265, AI364026, AW438643, AA483771, AW088058, AA713891, AL036037, AA189117, AI744995, AI431303, AI284640, AI281881, AI270117, AA658362, AI688846, AI061186, AA654761, AA599920, AW193432, AI375710, AI619997, AA613232, AI754658, AA584167, AA490183, AA084725, AW029038, AI962050, AW303196, AW274349, AW274346, AA635442, AL046409, AI355224, AI801591, AI583283, AI345654, AA526758, AI289067, AW301350, AA938105, AL121235, AI929531, AI339850, AA594145, AW408707, AW050498, AI341664, AA808877, AA324164, AA525824, AW419262, AA908468, AA376519, AA664015, AI281903, AI379719, AI287451, AA716348, AA126777, AW406447, AW261871, AA071393, AL134972, AI798489, AA719805, AI382614, AA446657, AA719292, AA526779, AA488746, AI061143, AA601876, AI017024, AI439210, AA350859, F17891, AW089322, AW338086, AI334435, AA167659, AW238542, AI754955, AA346454, AI696962, AA551503, N94233, AA351056, AA577959, AW302450, M86143, AA973803, AA639248, AA586458, AA613227, AA632868, AI358571, AI678316, N29948, AI341548, AW276701, AI040313, AI910609, AA744031, AW072587, AI002834, AA568778, AL044940, AA621858, AW341900, AW073470, AA744077, AA504871, H72402, AI432270, AA776258, AW162049, H85382, AL041706, AA846952, AI370878, AA095074, AA758934, F33795, AA653221, AI986251, AA813902, N29941, AA593247, AL022165, AC002451, AC020663, AP000355, AC005015, AP000328, AC005730, AC003016, AP000512, AP000170, AP000055, AP000123, AC006975, AC004447, AC008372, AC006285, AC002045, AC002549, AC002476, Z97195, AL031584, AC005154, AC005057, AL121655, AL121603, AC004953, AC005074, AC005242, AC006275, AC007030, AC005632, AC002310, AL049643, AC005527, AL080242, AC005694, AC007877, AC004755, AL078463, AF196970, AL078477, AC005740, AC005358, AC007011, AC002307, AC005529, AL049795, AL023280, AC004098, AC005839, AC004947, AF123462, Z97196, AL050308, U72787, U66059, AB020872, AC004381, AC003007, AC006333, AC000025, AC004152, AC002077, AL008716, AC016025, U57005, AC004519, AL031575, AC005678, AF003627, AC005746, AL035697, U07562, AL049845, AC004865, AC006040, AL049776, Z98051, Z84480, AC006208, AC005412, AL049742, Z81364, AC012599, AC007363, AC008115, AC006017, AL022311, AC005829, AL031650, AL110292, Z73358, Z82097, AL096791, AF188025, AL008709, AL031054, AC004686, AC004699, AC004477, AC005909, AC006211, AC004960, AC002308, AC004859, AC007878, AC002543, AC002412, AC002430, AL021940, AC004855, AL022323, AP000117, AL109623, AC005150, AF001549, AC006116, Z98304,

Clone		ID			Accession Numbers
HHEWX06	933879	8643	1 - 256	15 - 270	AC003684, AC004991, AP000275, AF038458, Z93241, AC007384, AC002365, AL133245, U91323, AC006376, U18399, X55931, U18391, X55927, U18392, U57006, U18394, U18395, X55925, X55922, X55930, AP000193, AP000105, AP000037, X54179, AP000282, AF015723, AL031431, AC008072, U18390, X55932, AC006365, AL035450, X55933, AC010170, AC004041, AC004076, AC003080, AL121892, AP000049, AC007590, AC004514, AL034549, AL008720, AC007298, AL008706, U85195, AC004033, AC007253, AL035249, AC005157, Z81450, AP000040, AP000108, AL031659, AP000311, AC000091, AC002991, AC007285, AL049839, Z86061, AC006204, AC006552, U04355, AL109985, Z95704, AC005873, AC006948, AC006006, AC002347, AL035460, Y10196, AC006312, AE000658, AC004603, AC004990, AC002470, AC007934, AL049873, AC004832, AF124523, AC000035, AL135746, AC004948, U18393, AL020995, AL050338, AL008718, AC004638, AC004796, AC004061, AC007243, AC007032, AL022721, AC006137, AC007652, AL031281, AC003950, AC007845, AC004967, AC008009, AL121653, AL080243, AF067844, AC007225, AC005089, AL035671, AC007406, AC004024, AL023882, AC002429, D87675, AC004802, AC008015, Z75741, AL021878, AC003048, AC006292, AP000090, U67801, AC016830, AC005180, AL022476, AC004070, AC004816, and AC005288.
HHEWT49	973142	8644	1 - 407	15 - 421	AI570927, N53790, and AI003414.
HHEWS01	914746	8645	1 - 604	15 - 618	AC005803.
HHEWQ10	963039	8646	1 - 259	15 - 273	AI051623.
HHEWM53	973150	8647	1 - 488	15 - 502	AI021958, N75976, and AC005572.
HHEWG06	933874	8648	1 - 308	15 - 322	H71868.
HHEVZ06	933891	8649	1 - 487	15 - 501	H80314.
HHEUU76	906956	8650	1 - 532	15 - 546	R21123.
HHEUP68	973215	8651	1 - 687	15 - 701	AW392670, AL119324, AL119319, AL037205, AL119335, AL119457, U46351, AW372827, Z99396, AW384394, AW363220, AL119484, AL119391, U46350, U46347, AL119401, AL119439, U46346, AL119497, AL119355, AL119418, AL119363, U46349, AL119443, AL119444, U46341, AL119483, AL119522, AL134525, AL134536, AL119341, AII142131, AL119396, AL134902, AL119399, AL134538, U46345, AB026436, AR066494, AR054110, AR060234, A81671, and AR069079.
HHEUL05	931045	8652	1 - 573	15 - 587	Z45694.
HHEUD79	774157	8653	1 - 599	15 - 613	R31253, and N76374.
HHETR81	836730	8654	1 - 705	15 - 719	AA488956, and AI857635.
HHETP07	952217	8655	1 - 365	15 - 379	AA608595, AA526092, AA548029, AI819569, AI978712, AI872216, AI572693, H73855, AI244758, AI205181, AI270326, AI821493, AW419161, AI732074, AI820988, AL138218, AW023389, AL079804, AL134330, AA984191, AII144330, F02412, AA878495,

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AW342042, R59868, AW419262, T47739, AA714595, AA557879, AI338509, AL046409,
AA747889, AI250747, AA909004, AI223735, H78150, R64126, AI744949, AW193500,
AA805841, AA431350, F32668, AA515435, AI792130, AI205126, R44841, AI628288, AI792337,
AL119259, AA705118, AA515224, AW438916, AI824562, W92302, AA669961, AA113367,
AA228264, AI082510, AI887443, AA317170, AW074398, AA640272, AA595841, AI291823,
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AW327961, N76908, AI446205, AI312149, AW338417, AW327960, T57604, AA377730,
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F32710, AI370475, AI925321, F23327, R72392, F29989, F00320, AI110770, AA570416,
AW080134, AI753365, AI590406, AI064703, H09327, AA618158, AL041733, D58782,
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HHETN89	8656	786361	1 - 674	15 - 688	W79658, and AA468892.
HHETN03	8657	923009	1 - 630	15 - 644	AI598001, AI393602, AA084609, AW340905, AA744018, AI065031, AI344948, AA714011, AI933714, AI962030, F29968, AI499954, AA837035, AA182731, AI278972, AL119691, AI190247, AA493226, AA602906, AA829044, T11828, AL038842, AA847622, AA775205, AA971196, AA644090, AI311796, AA825827, AA492015, AA622801, AA618035, AI150731, AA687730, AI678468, T67090, AI367473, AA502991, AL135108, AA765925, AA526326, AA515048, AA613624, AA452887, AW150077, AA312559, AI281818, AA679625, H29914, AA581247, AI335995, AA536016, AI821382, AW020094, AI031759, AI799569, AA526625, AL038893, AA559241, AA862183, N71685, AI659023, AW021399, AA486559, AA613761, AA832444, C75622, AA515905, AI754567, AA693366, AW341978, AA664043, AI755214, AI249688, AW150028, AL038705, AA640685, AW193265, AL044966, AA651632, AI818067, T71936, AW188742, F18842, AI345157, AA535216, AI077941, AW021627, AA427470, AA525753, AI039257, AI754105, AA559166, AA587516, AI815097, AI866160, AI701898, R98218, AW022934, AA350648, AA847508, AA176978, AI350211, AI653636, AA613594, AC007546, AC005899, AC004623, AC002115, AP000248, AP000210, AP000132, Z83840, Z85996, AC006468, AL008715, AC004232, AL022336, AC006011, AC005500, AC004598, AC005089, AC003669, AL022238, AC004783, AL031848, AC005225, AC002301, U91326, AC005730, AC005015, AC007160, AC011456, AC005102, AP000208, AP000130, M87912, AC005081, AC005562, AL023804, L24093, AC004745, AC004150, U52111, AC005228, AC005728, AL031662, AC004797, AC002395, AC005520, AC004148, AF134726, AC005399, AC005913, AC005328, AL021546, AC004156, Z97832, AL121593, AC016026, AC000062, AL034418, AL049759, Z98200, AL022165, AC006121, AC005412, AL022315, AL049760, Z82214, AL022302, AC002544, AC005544, AC006111, AC007263, AL031311, AC004996, S42653, AC005387, AP000555, AC005884, AP000502, AL035086, AL118512, AL049692, AL078600, AC005513, AC005409, AC005348, AL050348, AC004696, AC002504, AC002543, Z99496, AF053356, AC000118, AC004559,

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HHETK38	8658	973120	1 - 565	15 - 579	
HHETH36	8659	901275	1 - 540	15 - 554	AC005476.
HHESV83	8660	780456	1 - 317	15 - 331	AI040349, AA480189, AA027168, AI935351, AII84494, AA927786, AA027167, AA282618, AI96421, AI913352, AII28765, AI302397, AI984941, AA287702, AA933851, F24601, AA938000, T56346, AA326546, T56496, AA365652, AA382209, and AB023172.
HHESV71	8661	806332	1 - 213	15 - 227	AA902215, H18354, AA630672, AA834707, AA019312, AW022433, AA961035, AI268334, AI268336, R44116, N74072, AA320966, AA504877, AA993818, AI811799, AI630176, AI828801, AA484373, AI267269, AW080436, AW148507, AA137013, AA737106, AII10595, AA541423, AW084466, AA402129, AA101689, AA303007, AW265735, AW270343, AA526630, AI932599, AW327548, AI675615, AA442176, AW410354, AA302327, H12071, AA947534, AI753488, AW275719, AA455483, AW302087, AL046205, AI049709, AF034194, AF037630, AI370104, AI224415, AA610219, AA837087, AI334443, H73230, AW022897, AW275971, AW102846, AA568494, AL047349, AL036382, AA743445, AW172928, AA443390, AA533176, H86365, AW302080, T99827, AA523841, AA468131, AA483223, H25921, AA454177, AC008116, Z68276, AP000967, AC004903, AC004896, AL021707, AL035588, AC002126, AL109798, AL035562, AC005005, AP000365, AB015355, AB015196, U91318, AC002219, AC004491, AC006318, Z85995, AP000049, AL022336, AC004901, U85196, U91318, AC002219, AC004491, AC006318, Z85995, AP000049, AC003075, AC004814, AC006509, AC005179, AC006511, AC008009, AP000959, AE000661,

HHESS93	8662	791729	1 - 743	15 - 757	AP000311, AC005250, AC006065, AC007151, AL031257, AC006356, AB023054, AL008627, AC006965, AC003071, U95742, AL049543, AL034554, X69951, AL049761, AL023803, AC004890, AC007325, Z99128, AL022343, L44140, AC002082, AC006478, AC002465, AC002288, AC007390, AF019413, AC005370, AB003151, AL121658, AC007999, AC003101, AC007226, AC008103, AC004381, AC005550, AC002531, AC005291, AL008712, AP000476, AC006141, AL080241, U82670, AL031774, AC005962, U85195, AL132641, AF165926, AC008038, AC005778, J03071, AF055066, AC005768, AC004659, AC008115, AE000658, AC004887, AP000201, L11910, AL049631, AL049757, AL050318, AP000275, AJ010598, AC004884, AC007051, AC005666, AC005226, AC009227, AL021808, AP000105, AP000037, AC005856, AC005066, AL034343, AC007221, AF111168, AC004805, AC002470, AC006050, Z97634, AC007270, AC008033, AC007221, AF111168, AC004805, AC002470, AC006050, Z97634, AC007270, AP000103, AC010206, AP000697, AL078638, AC005180, AC006344, AC006924, AL021878, AL023281, AC005340, AC006211, AC016025, AP000688, AL034561, AC011311, AL118523, AL133445, AC006080, AC004955, Z97205, AP000962, AL121892, AC007421, AC004646, AL009031, AC004972, AC005083, AC002326, AC000364, AC004527, AC004167, AL022476, AC004551, AL034395, AL110502, AC004257, U91323, AL121595, AC004934, AC002127, U73331, AC004558, AC004596, AL109627, AL022727, AL031054, AL022302, AL049776, AC005476, AL023280, AC004813, AL035697, AC004991, AL096678, AC002310, Z81369, AL009183, AC007787, AC004593, AC004911, AC008062, AL031776, AC006430, AL009173, AC004016, AC002385, AC008040, AL135746, AL049557, AC012039, AL031286, AC004970, AP000240, AC006323, AC002395, AL021918, AL078602, AC007462, AL050341, Z83844, AL133246, AL023494, AF106202, AC002302, Z93017, AL049873, Z74696, AC006011, Z81311, AC004149, Z97056, AL079295, AC005358, AC006544, and AC007099.
HHEQV46	8663	718640	1 - 557	15 - 571	N50846, N45661, and H40596.
HHEQT07	8664	952452	1 - 2385	15 - 2399	N57265, AA282692, AI242959, H71719, H75784, and AW183081.
HHEQP75	8665	973104	1 - 515	15 - 529	AI760464, AI767592, AI638548, N32912, AI807501, AI741842, AI279458, AW044672, AI274099, AA431728, AI631609, AI654431, AI139981, AI627630, AI096928, AW451355, AI631656, AI081396, AI796487, AI936118, AA525762, AI221786, AW062345, AI207996, AA559026, AI798316, AW452771, AI214760, R60899, AI084691, AA516035, AA504631, AI077969, AA771793, AI339473, AI080052, R21999, R64203, AI287970, AW073288, AI352433, AW083740, W31679, AI280486, R69571, AA258401, AA063284, AA302159, AA758823, N69911, AA935191, H09080, AA040796, R64109, AI424748, N62769, AI823758, R33811, AA933822, AI347371, AI673707, AI673708, AA764746, Z38855, AW071057, N42054, AA747629, AA019766, AI783475, R21998, C01887, and AA507164.
HHEQL50	8666	723930	1 - 455	15 - 469	AA083528.
HHEQK53	8667	727812	1 - 690	15 - 704	R22320, and R22319.

HHEQH22	8668	723305	1 - 357	15 - 371	H84643, AI688153, AA481647, AI869837, AW361991, AW029303, AA481414, N34803, AA857012, AI360148, AC006050, AF073926, AF047438, and U49841.
HHEQC89	8669	786603	1 - 474	15 - 488	AA210815, and AI939420.
HHEQC26	8670	679505	1 - 514	15 - 528	AA203563, and AC005164.
HHEQB59	8671	738866	1 - 735	15 - 749	AI003508, AI733556, AI792286, AI792327, AI696480, H28915, AI810218, AA679636, AI924520, AW105710, AI018653, AA678645, AA825445, AL078475, AP000025, AP000026, and AL050302.
HHEQB23	8672	675500	1 - 145	15 - 159	R94836, and AA577023.
HHEPW95	8673	588266	1 - 274	15 - 288	
HHEPW40	8674	588265	1 - 363	15 - 377	
HHEPW11	8675	966789	1 - 347	15 - 361	AA487512, AI697235, AA382130, AA528634, AW316599, H62537, AI345704, AI345794, AW161459, AW161879, AI191343, AI003797, AA936548, AA526032, AW084431, T92788, AI360690, AA856958, AI808173, AI114739, AI446500, AA650108, AI978931, AI886224, AA745570, AA093114, AA299422, R76735, AI697242, AI690474, AI583677, AI692245, AI697239, AA507631, AA494253, AA458752, T06876, AA789098, AA069926, N25034, AA554389, AA668945, F28756, AL047645, AA218835, AI922583, AI623741, AA350375, AA360015, AA209436, AI298557, AA907192, AA808843, AA569494, AA808847, AI358514, AA652675, AA886227, AL045107, AA826006, AA148800, AA148531, AI749306, AA773302, AA320722, AI689198, F33184, AA482693, T90014, AI026710, AI829381, H78921, AA666327, AA493618, AA338216, N38803, AI753549, AI934548, AA578245, AI537023, AI246386, AI560228, AW089952, AI753969, H78281, AI580018, T87818, AA778826, AI190247, H24953, AI150848, AW008231, AW377907, AW377921, AI922805, AW377912, AA303770, AI524712, AL079869, AI929738, AI686563, AW163602, AW162887, AW390555, AW162662, F18394, AI274684, AL045451, AW390278, AI139971, AC007055, AC005844, AL049748, AP000432, AC004217, AC004225, AL034420, AC002312, AL034400, AC016831, AC005585, AC001228, AL096801, AC005531, AL096773, AC005215, AC004858, AC007444, AC004004, AL109839, AL009031, AC002326, AC004477, X76775, Z96104, AC002470, Z93023, AC005516, Z95152, AL132987, AC004997, AF109907, AC000353, AC005280, AC004854, AC005534, AL034371, AL135744, AC007911, AC008119, AC007917, AC003043, AC005200, AC005553, AC007786, AC004999, U80017, AC006071, Z98950, AC004495, AC007964, AC007370, AC005318, AC005409, AL031681, Z97053, AC006101, AC004925, AF017104, AC007182, AC000379, AC004257, U41384, AC005027, AL049780, AC007226, AL121852, AL022322, AF190465, AL135745, D86992, AC006505, M20902, AC009501, Z49154, AF090931, Z98754, AL133371, AL021578, AL133396, AP000066, Z73359, AL035072, AL121892, AC004638, AC005261, AC005736, D88270, AC005902, AC004234, AC004821, AL035660, AL049631, AC006432, U73627, AF061779, AC007671, AC004923, AC007151, AC005839, AC002073, AC005332, AC000087, AC006441, AC008072, AC000071, AC004960, AC004216, AL121655, AL049709,

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HHEPT05	8676	912266	1 - 2504	15 - 2518	AW069598, AW131635, AI669446, AI669022, AI968479, AA628971, AA928346, AA828393, AI245982, AW305033, AI399953, AI478692, AW276504, AA653293, AI082346, N57490, AW264574, AA583342, W72055, AI887350, AW268530, N68244, AW130656, AW131233, AI819853, AA253240, AA167004, AA491296, AA171704, AW273451, AA890295, AI431699, AI061332, AI373431, AI262352, AW196819, AI253535, AW243718, AI831015, AA683296, AA846151, AW316619, AI369009, AI942247, AI302629, AI379246, D29081, AA559882, AA722978, AI128087, AW023413, AA287414, AI433493, AA720906, AW130662, AA463506, N77877, AI253623, AA463439, H24406, AI924613, AW192204, AA397433, AA989368, R46595, R24070, AW089044, W05834, T15472, AI265964, T65426, AI749288, AI923627, AW020937, AA855107, AI378942, AI276045, Z45625, T16609, F09478, AA364112, AI984324, AA961110, R77605, AA402444, AA834097, R58443, F05807, R24122, AA650077, AA658584, AI971866, AA327416, R77606, AA171628, H22552, H43755, and AA720957.
HHEPT03	8677	923410	1 - 1057	15 - 1071	AL138265, AI679782, AI687343, AL048925, AA181773, AL046409, AL042753, AA749158, AI963720, AI431303, AI696962, AW193265, AW327868, AW303196, AI279417, AW274349, AA847499, AI623720, AI696955, AW301350, AI270117, AI345654, AL044940, AI801482, AL038705, AA581903, AI281881, AI754253, AL037714, AI613280, AL041690, AI312309, AA515728, AA720702, AL138455, AW085790, AI986165, AA490183, AA846935, AI061313, AL119984, AA101689, AA470969, AA491814, AW438643, AW276827, AA577906, AA569471, AW088202, AA704393, AI192631, AA723017, AI570261, AI610920, AI249997, AI270559, AA857486, AI457397, AA587604, AI635440, AA621858, AI110770, AW408717, AI559705, R98218, AI679045, AA469451, AA649642, AI246119, AW072587, AI610607, AI962050,

					AL038703, AA613227, AW301809, AI049709, AI350211, AI358501, AW238583, AA551552, AI298710, AW062724, AI732151, AA482768, F36273, AA586458, AW088718, AA515224, AI754955, AA610493, AA533036, H71429, AW338086, AI951863, AW162049, AW193432, AC000353, AC006211, AC005829, AC005527, AC005081, AC002565, AL031659, AC005295, AC004796, AC005399, AL049780, AL096791, Z98884, AC002375, AC005971, AF001548, AC005412, AC005519, AC005920, Z97054, AL049636, AC004883, AC004638, AC002300, AC006312, AC004963, Z98742, AC005015, AC005837, AC004887, AF111169, AC016831, AL035684, AC016830, AC005102, AC005488, AL033527, U91321, Z98743, AC005666, AC002425, AC002470, U95742, AC004491, AL080243, AP000697, AB020865, AC003101, AL050332, AL031668, AL121653, AC007011, AC005003, AF001549, AC005562, AP000555, AC002288, AC006057, Z84487, AL034417, AL133244, AL049869, AF053356, AC004605, AC005071, AL035089, AC002301, AC007637, AC006285, AC005261, AC007284, AC002492, Z95152, AC004821, AC007216, AC002310, AC007151, AP000501, AC005578, AC006966, AC007298, AC004228, AC004032, AP000553, AC004686, Z93930, L78833, AC005209, L44140, AJ003147, U80017, AC008372, AL022330, Z95114, AL031651, Z83840, AC005067, AC005880, AL020997, AC004967, AL023807, AC000025, AC007193, AP000350, AC002302, AC009516, AC005237, AC005632, AC004253, AC004383, AC002352, AF064861, AB026898, AF107885, AP000688, AL117258, AL022329, AL022318, AC005821, AP000557, AC006461, AF207550, AC004876, AL109839, AL050307, AP000556, AC005736, AC006512, AC006324, AF030876, AC016026, AL049776, AC007114, AL035419, AC004675, AC006449, AC004019, AC006538, AC007541, AP000493, AP001053, AC002477, AF031078, AF088219, AF111168, AC005919, AC005529, AC004805, AF196969, AL050318, AL035079, AC002365, AC007066, AC005082, AC007030, AC005377, AC004841, AC005790, AC005914, AL133448, AC004033, U91322, AC003950, AL031311, AC006064, Z84484, AC002404, AF109907, AC004230, AL121652, AC004522, AC005940, AL031432, AP000689, AC002395, AC006023, AC002070, AF196970, AL109628, AC004966, AC004991, AL034343, AC005531, AB003151, AL008725, AC007050, AC020663, AC005690, AC006581, AC004531, AC006120, AL024509, AL031846, AC006251, AL035455, AC016025, U95090, AC007225, AC016027, AC005730, AL109758, AL049709, AL049760, AC012085, AC005049, Z83822, AC006101, AC004938, AL034420, AC005011, AC006344, AL034549, AL035415, AC006115, AC007055, AF196972, AL009181, AC005622, AP000512, AC004659, AL035415, AC005799, AC005154, AP000511, AC004878, AC002558, AL049539, AF037338, AF134726, AC006212, AC005899, AL008718, AL133249, AC005859, AC004771, AL031587, AL031291, AP000355, AC003007, AC007842, AL079342, AL021707, AL109984, AL049759, AC004257, AC005089, AC005544, AC007308, Z94056, and AC005280.
					W56087.
HHEPN71	8678	588241	1 - 721	15 - 735	
HHEPM69	8679	588235	1 - 372	15 - 386	

HHEPG62	8680	1 - 814	15 - 828	AW007647, AA410428, AA425770, AA702540, AA953885, AA256277, R67851, Z38978, R41246, H41898, Z19699, D62705, AI541468, AL133113, and A75286.
HHEPG59	8681	1 - 529	15 - 543	AA521097, AW268594, AA917092, AA703191, AI580848, AL043152, AW002653, AI146275, AI275894, AI611051, AA029718, AI699998, AI092449, AI242378, Z38987, AI760326, T81076, AA248753, AW393578, AW393562, and T81124.
HHEPF21	8682	1 - 463	15 - 477	AI650932, AW183419, and AI078600.
HHEOG81	8683	1 - 353	15 - 367	N57024, AA412609, AA446493, AA446313, AA412274, AA417161, AI206458, AI024531, AI027971, and N29332.
HHEOA63	8684	1 - 521	15 - 535	T75517, R99167, and T99393.
HHENY02	8685	1 - 361	15 - 375	AA936859, R08108, and AL031120.
HHENW11	8686	1 - 389	15 - 403	AA216412, T99179, AI285753, AI924872, AA442105, AI174766, AA635739, AI250083, AI311684, AI805363, AI254279, AI133164, AA729282, AA491449, AA489996, T60940, AA420877, AA490183, AA420452, AI133297, AI223604, AL041619, AI310780, AA493695, AW080777, AC005620, AP000432, AL049795, AC005011, Z97054, AC006079, AC003071, Z95331, AC002073, AC005102, AL121658, AC016831, AC007227, AL021546, AC007938, AC005666, AP001053, AP000556, AC006137, AC006430, AC007226, AC006538, AC005231, AC007688, AC016027, AC007564, AC008055, AC005291, AC003030, AC005244, AC002539, AL022165, AL096701, AP000252, AC004562, AC009399, AC005067, AL049569, U85196, AC006312, AC004263, AP000212, AP000134, AC004491, AC012085, AC008079, AP000043, AP000111, AL035420, AC004796, AL008715, AC007057, AC005899, AF039907, AL031680, AC004999, Z93023, AL021707, AC002126, AC005410, AC006241, AC004234, AL035410, AL049631, Z93930, AC005484, AL024474, AP000251, AC005800, AC006101, AC004149, AC004531, AC006131, AB003151, AP000688, AC004882, AP000300, AC005874, AF134471, AC005412, AE000661, AL035587, AC005722, AC004815, AJ003147, Z98051, AC016830, AJ022724, AL122021, AC005480, AP000689, AL031577, AC005049, Z83826, D84394, AC007567, AC005200, AP000030, AF124523, AC004985, AC005921, AC005592, AP000045, AP000113, AC007566, AP000692, AC006511, AC004056, AC005940, AF024533, Z97056, AC004876, AC005189, AL031588, AL031685, AL031848, AC002464, AC005821, AC005225, Z97205, AC005004, AC008067, AL049779, AL031432, AC003982, AC005088, AC002404, AC004910, AC007676, AL008583, U62317, AL049872, AC002119, AC009247, AC005837, AC006581, AL031584, AC005015, AL078584, AL031666, U80017, AC006211, AL009181, AC004408, AC007066, AC005971, AL021918, AC004832, AC004067, AL021578, AL034419, AC007686, AF038458, AF006948, AL135783, AL008582, AC006011, AC004953, AC004973, AL022323, AC007792, AC005786, AC005257, AC005988, AL031274, AC002429, AC004801, AL050318, AC006039, AC004859, AP000065, Z93241, AC005630, AC005280, Z82171, AL022316, AC006509, AC007040, Z99716, AC002477, AC002094, AF049895, AC005839, U52111, AC006126, AC005300, AL096791, AC005300, AC006449, AP000112, AP000044,

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HHENQ08	8687	959262	1 - 431	15 - 445	H68621, H80833, and AC004622.
HHENK21	8688	858290	1 - 798	15 - 812	AA631620.
HHENJ29	8689	690576	1 - 488	15 - 502	AI357399, AI813392, AI769194, AA490985, AA648531, AA971925, N90859, AI074897, AA886373, and AA609916.
HHEND53	8690	728111	1 - 500	15 - 514	H22946, and Z38757.
HHENC71	8691	757844	1 - 530	15 - 544	W95913, and AC003090.
HHEMZ66	8692	586737	1 - 432	15 - 446	AW340990, AW270170, AA913381, AW392670, AL119341, AL119319, AL119457, AL119324, AL119484, AL119391, U46350, U46347, Z99396, U46351, U46341, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, AL119483, AL119443, AL119522, AL119439, AL119444, AL119399, AII42131, AL134920, AL037205, AL119401, AL134531, AL119396, U46346, AL119335, AL134527, AL134536, AL119418, U46345, AL134538, AL119496, AL134533, AL042975, AL042544, AL043019, AL042984, AL042542, AL042614, AL042965, AL043029, AL134529, AL042450, AI043003, AL042551, AL119464, AB026436, AR066494, AR054110, AR060234, A81671, AR069079, and AR043113.
HHEMW78	8693	773507	1 - 725	15 - 739	AA251113, AA766300, AA651948, AA703557, R94607, AL119319, R94247, AL042551, AL119418, AW392670, Z99396, AL119457, AL119324, U46351, U46350, AL119497, AL119522, U46347, AL119484, AL119391, AL119443, U46341, AW372827, AW384394, AW363220, AL119355, AL119363, AL037205, U46349, AL119401, AL119439, AL119444, AL119483, AL119335, AL134525, AL134536, U46346, AL134528, AL119396, AL134531, AII42131, AL119464, AL042544, AL119496, AL134902, AL119399, AL043019, AL134538, U46345, AL042450, AL042433, AL042542, AL042614, AL042984, AL043003, AL043033, AL042965, AL042975, AL043029, AL043003, D86604, AB026436, AR066494, AR060234, A81671, AR054110, and AR069079.
HHEMV01	8694	916281	1 - 262	15 - 276	R95819, H61040, H61032, and AC007967.
HHEMQ68	8695	752326	1 - 140	15 - 154	AC006991, AC008175, and AC003681.
HHEMQ48	8696	493733	1 - 534	15 - 548	
HHEMN37	8697	708468	1 - 205	15 - 219	
HHEMK77	8698	772115	1 - 255	15 - 269	

HHEMK26	8699	681595	1 - 458	15 - 472	AC004047.
HHEMJ91	8700	789443	1 - 572	15 - 586	R38756, AA169642, AA807905, AW021148, AA746636, W76332, AA041299, W72247, Z40683, AW054820, Z41322, AI089582, AI138777, AW151097, AA041351, AA705107, and Z95152.
HHEMI69	8701	755006	1 - 445	15 - 459	AW197056, AL042891, AA650218, AI359687, AA658543, AI421102, AI809745, AA226084, AA653852, AL080243, AF196779, AL096701, AL121603, AL031291, AC005520, AC005562, AC005081, AC005037, AC003071, AC005102, AC006441, AL049776, AC002369, AC005844, AP000354, AC005057, U80017, Z93017, AL132712, AC006312, AC005071, AC004483, AC005015, AC006057, AC006211, AC016027, AC004859, AC006251, AC007227, Z83840, Z97630, AL049569, AF165926, AC002544, AC004662, AL024507, AC006285, AC007707, AL031685, AC007537, AF053356, AC005011, AF001550, AC007193, AL022316, AC020663, AC004966, AC005484, AF001552, AC007225, AC012384, AL049839, AC016830, AC007688, AC002395, AC004878, AC006946, AC000052, AL008582, AC004815, AL021453, L44140, AL021391, AC007637, AP000248, AL109952, AC005829, AC005786, AC002301, AP000503, AC010205, AC004796, AC004491, AC004019, AC005049, AC007546, AL034420, AF047825, Z83844, AC004814, AC008372, AC005722, AC004953, AC003101, AP000355, AL022326, AC007686, AC005225, AL109984, AC005722, AC006014, AP000065, AF134726, AL023575, AC004887, AC004084, Z98941, AL031584, AL022315, AC000026, AC002350, AC015853, AC005622, AC006059, AL022476, AC000025, AC002073, AC005529, AL033527, AC004382, AL050318, AF111168, AC005527, AL022336, AC004832, AP000692, AC005031, AC005488, AC003010, AC002059, Z84487, AC008040, AC002119, AL031255, AC002394, AL133382, AL031591, and AC006121.
HHEMI56	8702	469030	1 - 445	15 - 459	AI133448, AI339436, AA401945, AL044340, AL037425, AI014656, AA577824, AI216990, AI569363, AA179163, AI249880, T74524, AW079809, AA524229, AC004491, AL050306, AC005921, AC008033, AC007686, AL031255, AC002094, AC002470, AC005088, AC005796, AC005859, AC005037, AC006241, AL080243, AL049776, AC005844, AC016026, AC005231, AC004859, Z84466, AC002352, AL049540, AC005527, U91323, AC002288, AC007371, AC004707, Z93241, AC007731, AF038458, AC005899, Z82206, AC007057, AC005005, AC004985, AC004019, Z93023, AF030453, AC005519, AC002300, AC005358, AC002425, AP000557, AC005881, AP000553, AC005519, AC005529, AC004983, AC007263, AC005332, AL031276, AC005940, AC006001, AL096773, AC004821, AC006509, AF207550, AC003071, AC005911, AC005484, AC007308, U47924, AC005520, AP000011, AC005488, AC005841, AL049758, AP000133, AC008372, AC002350, Z98752, AC009516, AL024507, AC006430, AL021707, AL049779, AC005412, AC002549, AC004922, AC002044, AC007226, AC006538, AC005514, AL022238, AC005011, AC000025, AC002400, AC005377, U91326, AC005015, AL031058, AL022336, AP000211, AC005180, AL031283, AC006251, Z98941, AF165926, AL031228, AC005089, AC005602, AL024498, AC012384, AL133163, AL035249, AP000512, AC005409, AL022320, AL035086, AF030876, AP000555,

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HHEMI09	8703	625459	1 - 448	15 - 462	AA280176, AA722934, AW402500, and AI471831.
HHEMG02	8704	917366	1 - 705	15 - 719	AI361650, AI939413, R13983, AI791644, AI792322, AA312035, AI424010, AW082869, AA911739, N56305, and AI422406.
HHEMG01	8705	916297	1 - 284	15 - 298	
HHEMD56	8706	733353	1 - 400	15 - 414	R94247, and AA251248.
HHEMC41	8707	927255	1 - 457	15 - 471	AI146808, AA722187, AI990261, AI808778, AW451154, AI983943, AW449490, AI088675, AI492618, AA526969, R76719, AW162759, AA719439, AI880009, H41614, D80207, H97676, AI804223, AA115533, H13188, AA552629, AI796667, H13189, W23735, AI203992, AW304934, AI150509, AI832722, AW157796, AA115532, and AI916646.
HHEMC10	8708	969380	1 - 1813	15 - 1827	AW166113, AL119483, AI340151, AA491767, C75574, T47138, AA714110, C75406, AA444166, AI038304, H29914, AI249688, AW151247, H53546, F29968, AA525753, AA829723, AI251429, H47835, AI366180, C75602, AI031759, AA535216, AI572680, AI597580, AI254779, AI744766, AA494313, C75649, H60639, AA630854, AI620376, AI244356, AW103030, AA666295, AA602906, AI754567, AI619933, AI628859, AI150731, H47461, AW302017, AI570943, AI588837, AA779783, W05446, N49298, H88666, AI613465, AA458534, H05066, AL047349, AW275432, AI627917, AA133293, AI755214, AI251576, AI571161, AW070532, AI288350, AA303054, AA662573, AI284105, AI306232, AA622801, T50694, AI049999, AI569100, AI077941, AA262752, AW302753, AI590404, AA714011, AA837686, AI144081, AW302711, AW301906, AI583466, N26201, AA452887, AA640710, AI580707, AW274191, AW192599, AW020612, AA218684, AA084320, AA128511, AA904137, AI610360, AL041894, AI829331, AA720582, R92658, AA581247, AA525331, AA828833, AI884383, AF071071, AF170303, AF170304, AF077658, AF071070, I34294, AC010170, AL049694, Z68285, AC009247, AL109952, AL049697, Z99128, AL023807, AP000553, U17576, S77605, AL035086, AC006509, AP000116, M87923, AC006449, AC005207, AC002302, AC003682, AC005776, AL049759, AC006111, AP000239, AC004797, D00591, AC002369, AL109758, AF196779, AL049776, AL080243, AC004033, AL080317, U82828, AC004771, AC002096, AC005377, AL031594, Z83826, S42659, AC000353, AC005747, AC016026, AC002115, AC005520, AC004584, AP000310, AC005065, AL050307, AC006505, AC007050, AF053356, AC005793, AL009183, AC004983, AL031230, AC000003, AL031284, AL096701, AL035071, AC007276, AC005067, AC000025, AF196969, AL022322, Z82245, Z98742, AC005332, AC004242, AC004534,

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HHEKI70	955092	1 - 360	15 - 374	H81062, R66623, AA157130, AA709449, AI418982, AI224930, AA555217, AI670713, AI025077, AW024689, AW026453, N34521, AA583083, H11108, AI335880, AA782850, AW051284, AA995800, AI299462, AI749642, AI601228, AA909761, AA862779, AI720508, AI808092, AA191356, AA055048, AW294880, AI745210, AA907529, AI818823, AC003108, and U91321.
HHEJR35	878223	1 - 318	15 - 332	AA017452, and AA058749.
HHEHK04	925717	1 - 929	15 - 943	AI276548, AA447822, AI417105, AA447672, AA256175, AA256234, and AC005368.
HHEHG38	943785	1 - 570	15 - 584	AI807087, AW271548, AI419841, AI538436, AA424573, AA770475, AA742969, AA873728, AA987961, AA972636, W72622, AA947936, AW016152, AA488904, AA826395, AI701287, AW138334, AI632691, AW138149, AW206969, AI350132, AW167659, AI475742, AI298733, AI985561, AI696060, AI334306, AW015583, AI767968, AI523823, AW149586, AI681193, AW139596, AI827183, AW052123, AI801957, AW004849, AA410446, AW015071, AI693271, and AA806974.
HHEGC05	930878	1 - 457	15 - 471	AA706313, and AC004106.
HHEFN76	767770	1 - 687	15 - 701	AI476429, R01739, H81216, and AC002112.
HHEFM41	711954	1 - 764	15 - 778	N79427, AA479328, and AA585287.
HHEEY63	744592	1 - 600	15 - 614	AA429377, and AA451768.
HHEDN70	757106	1 - 376	15 - 390	AA134627.
HHEDN51	734118	1 - 380	15 - 394	AA455618, R68619, AI963632, and R80278.
HHEDN49	588136	1 - 384	15 - 398	AA548611.
HHEDI54	588129	1 - 551	15 - 565	AA001827, and AI874381.
HHEDB30	692086	1 - 550	15 - 564	W07668, AL041812, and Z59034.
HHECT42	588098	1 - 606	15 - 620	AA081780, and AA084623.
HHECM62	934414	1 - 534	15 - 548	AI732599, AA132796, AW205259, AA885330, AA769901, AI609831, AW087786, AI423901, AA313420, and AI791778.
HHECA10	973228	1 - 349	15 - 363	AI904811, AI869990, AA766310, AA493695, AA769402, AI567076, AW275510, AA490183, AA548058, AA757775, T60681, AA568869, AA515334, AI632259, AW002350, AW071163, AA484373, AW408047, AA526630, AA169263, AW023865, AL119691, AW438853, AW407578, AA468022, AI924872, AA491650, AI305766, AI345157, AI580250, AI982555, AA491862, AI783494, AI311927, AI445674, AI368256, AW083402, AW302903, AI687343, AA838190,

HHEBQ68	8729	752956	1 - 437	15 - 451	AW028392, AW021583, AI968296, AI524360, AI350211, AA487726, AW270258, AA504877, AA659169, AA683238, AA623002, AI801482, AA883994, AI860013, AI613280, AI871834, AI932599, AW082108, AW193265, AI002744, AW438643, H25921, AA631507, AI281881, AA580808, AA457249, AI460009, AA502860, AW069769, AI873990, AI754658, AA503770, AA501777, D44638, AI133164, AL042753, AW020340, AW238278, AA661921, AA908687, AC004832, AC005839, AC003950, AL049712, AC007687, AC005071, AC006255, AC002994, AI229042, AC004808, AC004167, AF088219, AF227510, AC005670, AC006480, AC007685, AP000088, AC004859, AC005837, AL121578, AC005082, AC006061, D84394, AC004596, AC006960, U95743, AC006236, AP000966, AC002316, AC005821, AP000140, AC004990, AC005722, AC004933, Z98044, AL080278, AC003104, AC002544, AC005694, AC005057, AC006285, AL035587, AC007384, AC004675, AL109853, AC005881, AL023882, AL035455, Z92540, AL022320, AC005682, AC003681, AL049643, AC006252, AP000030, Z82194, AC005484, AC004848, AC004134, AP000193, AL022238, AJ006996, AC016025, AL049834, U91322, AC008168, AL008634, Z98200, AC005778, AC005387, AL049569, AC004814, AC006210, AC010200, AC005527, AF060568, AP000509, AF196779, AC006195, AC005013, AL117356, AL023284, Y18000, Z98051, AC008115, AF134726, AF001549, AC005181, AC004584, AC005102, AL050348, AL080242, AC002472, AC007860, AC008079, AL133448, Z95152, AC010168, AC007664, AP001037, AC005512, AC007021, AJ010770, AC005690, AP000117, AC006126, AB020862, AL031427, AC005280, AL022322, AC004975, AP000307, AL022323, AC005189, AL078593, AC006538, AL033525, AL008716, AC005253, AC005568, Z98750, AC004774, AC006271, AC004453, AC007688, AC005529, L44140, AL031295, Z83844, AC005288, AF107257, AL009051, AL022316, AL109654, AL031281, AC004253, AC007226, AC004825, AC006539, AL049538, AL049779, AC005520, AL035071, AC005248, AF111167, AC005323, AL031286, AF064858, AL035668, AF047825, AL034375, AC004966, AC006077, Z98752, AC007242, AF029308, AC005200, AC005841, AL031597, AL022724, AC002985, L78810, AC004634, Z84480, AC004935, AL035086, AL031659, AC005019, AC002543, AL031116, AC007191, AP000503, AC005067, L78833, AL049697, AC007450, AL080317, AP000359, Z93241, AC005409, AL050307, AP000009, U91323, AL109801, AC004531, AL031594, AC004019, AL109623, AP000553, AC005578, AC005747, AC005250, AC006312, AP000432, AC006430, AL049745, AC005972, AL049631, AP000431, U89335, AL021918, AC002347, AR036572, U91328, AC003046, AL096701, Z86090, U95742, AC007666, AL078474, AL096770, AL133382, AC004813, AC004855, AF001552, AC004223, AC007055, AC003664, AC003683, AL031662, AP000696, AC006211, AF176815, AC005183, AC005912, U82668, AC000134, L29074, AL031681, AC007216, AL031010, Z97196, AC006013, Z98742, AC004020, AL031319, AC003080, AC004755, Z99916, AC005070, AC004638, AL139054, AL008627, AP000047, AL022311, AC010175, and AC002430.

HHEBQ59	8730	739216	1 - 453	15 - 467	Z82182, Z85987, and AL031674.
HHEBO04	8731	615127	1 - 452	15 - 466	
HHEBM89	8732	786088	1 - 453	15 - 467	AW365588, AW178374, AW365586, AW178440, AW365663, AW375350, AW365798, AW351683, AW365799, AW365784, AW365743, AW365772, AW351664, AI809449, AI738507, AA972625, AI721277, AW178298, AW179229, AW365840, AW365686, AW365631, AI221680, AW375355, AI039710, AW365710, AW365803, AW365680, AI559604, AA583144, AI200839, AI580997, AW179232, AW365593, AA306854, AW365585, AA280016, Z21375, AA280087, AW178307, AW365767, AW365850, AC005317, and AC005316.
HHEBM53	8733	728087	1 - 459	15 - 473	AL037436, AL044199, AL037443, AL043467, AL040576, AL038532, AL041635, AL043537, AL044074, AL045753, AL038838, AL041133, AL045920, AL041602, AL043492, AL044165, AL043775, AL038822, AL041752, AL040839, AL045857, AL046442, AL040745, AL045684, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL040253, AL044037, AL044186, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL040444, AL046327, AL041131, AL045725, AL049069, AL045990, AL041227, AL040458, AL040553, AL041159, AL044187, AL046150, AL043612, AL041168, AL041955, AL037435, AL040090, AL040263, AL037343, AL040294, AL041197, AL040329, AL039744, AL044274, AL040082, AL044272, AL040148, AL041730, AL041523, AL043627, AL041186, AL046392, AL041374, AL040052, AL043845, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL049018, AL040472, AL043848, AL040370, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL046147, AL040768, AL037727, AL039360, AL046994, AL042712, AL042096, AL040414, AL040571, AL040529, AL046097, AL046914, AL045671, AI142134, AL037335, AL046360, AL080031, AL040238, AL045994, AL039338, AL037323, AL037341, AL041346, AL079878, AL041140, AL041278, AL040155, AL039432, AL047131, AL037295, AL041096, AL041358, AL047012, AL040463, AL045989, AL044227, AL045784, AL040464, AL037279, AL041098, AL041163, AL041277, AL037371, AL043538, AL041324, AL043440, AL039087, AL040621, AL037259, AL043128, AL040075, AL036788, AL048647, AL037352, AL046099, AL041210, AL040149, AL041086, AL041296, AL044162, AL043496, AL041233, AL036230, AL079953, AL079852, AL040193, AL037361, AL036500, AL038761, AL049007, AL041246, AL042700, T23957, T23888, AI525556, AL540967, AI525431, AI541365, AL525340, AI541535, AL042245, AI541374, AI541514, AI541017, AI546891, AL043950, Z30131, AL044015, AL043444, AI546855, T23985, T24112, T02921, T24119, AL039156, AI547039, AL047039, AL044530, AL036630, AL039504, AW451416, AW013814, AL039555, AL039509, AL039564, AL039521, AL039538, AL038043, AL039108, AL039678, AL039566, AL039074, AL038837, AL038837, AL039625, AL039648, AL039659, AL039629, AL045794, AL039476, AL043586, AL037726, AL038531, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL042909, AL041365, AL045341, AL045337, AL044412, AL037051,

HHEBJ08	8734	858429	1 - 526	15 - 540	AL045353, AL039386, AL039423, AL039410, AL044364, AL038025, AI541345, I25027, I44515, I26930, I26929, I26928, I26927, I44516, AR067731, AR067732, I25041, A29109, A32111, A83151, D78345, A84772, A84773, A84774, A84775, A84776, A68112, A68104, A93445, AR037157, AR054109, A86792, A58522, A20702, A91750, AR062871, A43189, A43188, A20700, AR038762, A85395, AJ244004, E14304, A85476, AR062872, A81878, A92133, I15353, AR062873, A98767, A64973, A93963, A93964, A25909, AR009151, E16678, A58524, A58523, AF082186, I66495, I66494, I66498, I66497, I66496, I66487, I66486, Y16359, E12584, A60961, AR051651, A98420, A98423, A98432, A98436, A98417, A98427, AR028564, AR068508, AR068510, AR068509, AR018924, I08196, A38214, I58322, I58323, AR027100, A48774, A44171, I56772, I95540, A48775, A63067, A51047, A63064, A63072, AR068507, AR068506, I05488, A60977, A49045, A76773, A22413, A91754, AR000006, AR015960, AR000007, AR015961, A49700, AR031375, I61310, A58521, AR031374, AR036903, AR067734, AR020969, I01987, I07249, AR017907, AR002333, I66488, I66489, A63954, A60985, I91969, A60990, I66490, I66491, I66492, I66493, I66481, AR035975, AR035974, AR035977, AR035976, AR035978, A60987, A32110, AR003585, I08051, A83642, A47368, A83643, I66482, I66485, AR027319, I19516, A06419, A21892, I19517, I66483, I66484, I08776, A91752, A23997, A91751, A68114, AR027318, A21895, A95096, A95105, A05160, A08030, A20502, A91965, I63560, I63561, I63563, I13349, AJ244003, A89633, A89634, A90655, A06633, AR038066, I85513, AR068550, A23373, AR068551, E01324, I08638, A70359, Z96177, A95117, X85060, AR016495, A93936, A60212, A60209, A60210, A60211, A94048, A94046, A94054, A93446, I07209, AR067733, AR029418, I09267, I09270, I09268, I09269, A49701, I09252, I09251, AR029417, A60206, AR035224, I58669, A83180, AR027099, A27169, A27170, A39929, AR038307, AR038321, AR051652, AR038306, X89399, E01239, E01561, AR064436, A92081, A92080, A92077, A92078, A92079, X83865, E01619, U94592, I06159, A11245, AJ244007, X12660, E12566, E12564, E12565, AR055048, AR055051, E03627, I15718, I15717, I08395, M28262, AR055049, AR012640, I48927, AR063671, and A70040. AA810477, AI809719, AA767097, AB022537, AL031228, AP000089, AP000142, and D87675.
HHEBB80	8735	775424	1 - 365	15 - 379	AI741540, AA285147, AI828011, AA938365, AA744754, AA748786, and U66589.
HHEBB22	8736	858418	1 - 311	15 - 325	AA580560, AI982808, AA668548, AL047192, H41986, AA372736, AI581037, AA290795, W23553, AW075704, AA730782, AI049701, AA676621, AI904944, AI564301, R88803, AL137946, AA487475, AA297011, AA326452, AI053784, AA296604, AI762302, AI904692, AA804297, AA161492, AI002762, AJ132637, AC006111, AC007421, AC006511, AP000557, AL096701, AC005529, AC002477, AC004033, AC003982, Z83844, AC006261, AC002117, AC005736, AC004813, AL022476, AC005071, AC005932, AC005531, AC007283, AC005971, AP000689, AF003626, AP000512, AC006088, AC005280, AC005288, AC002425, AF111168, AC007637, AC005231, AC007216, AL109827, AL031602, Z99716, AL022327, AC007055, AL022315, AC004491, AC006312, AC005015, AC006130, Z82215, AB023051, AP001053,

AC007371, AL035420, AC004955, AC005527, AL109628, AL133448, AC004815, U80017, AP000212, AP000134, AC005102, AC000025, AL049874, AC007546, AC007226, AC005839, AC005049, AC009247, AC005696, AP000008, AC004408, AC006509, AC005399, AC006257, AL021707, AC002464, AC006441, AL034421, AP000228, Z95114, U91323, AC005037, AJ251973, AC006211, AC009516, AC003963, AC002994, U63721, U62293, AL022313, AC005519, AC005632, AP000553, AL022323, AC004938, AC004531, AL109963, AL049776, Z84474, D87675, Z95115, AP000140, AC007279, AC005057, AL050343, AL096691, AL031681, AC006241, AF109907, AC004983, AC002044, AC004771, AC004148, AC008125, AC006141, AC005841, AC004985, AC004084, AL031291, AP000030, AC004796, AF024533, AC002316, AC003007, AB003151, Z83826, AC003992, AC005180, AL031685, AC002492, AC003101, AL135744, AC008372, and AC002314.

ID					Accessions
HHEBA86	8737	785413	1 - 529	15 - 543	T51229, AI438982, AA045636, AI263382, and W44735.
HHEAL37	8738	491205	1 - 452	15 - 466	AA846036, AA557945, AI061313, AA601336, AW157128, AI921744, AI038029, AW265468, AA618531, AA554289, AW239465, AA658443, AA828840, AI003068, AI251024, AL121039, AI702049, AA280886, AW021674, AI318548, AI064968, AW162314, AI344906, AI753365, AW023390, AA101744, AA653139, AA644090, AW162332, AA157876, AW237905, AW021847, AI570067, AI114755, AL135490, AA584489, AW148821, AA167656, AW410844, AA533660, AW439703, AW409626, AA828834, AA482682, AA507623, AI345256, AW131109, AI434103, AA631915, AW419389, AI027602, AI174703, AI520984, N99245, AA661583, AA761454, AI270280, AI815425, AA019793, AI254267, AW022796, AA601376, H47461, AW277240, AA847341, AI202777, AI361401, AA428991, AA496042, AI363336, AII49177, AI343808, AI744890, AI684999, AA205931, AI285651, AW029626, AA664963, AW162762, AI914748, AA847499, AA313025, AL135377, T15407, AI860423, AC006468, AC005755, AP000547, AF113694, AC006071, AL049694, AC004257, AC005585, AC006323, AC004997, Z82208, AF165926, AC004263, AF111168, AC007227, Z83844, AC016026, AC004685, AL020997, AC006088, AL031295, AC004000, AL049776, AC005971, AC005822, AC007240, AC005740, AP000692, AF107885, AL133163, AC005055, AL109952, AL034548, AL022165, AC004777, AC004812, AC008055, AC005221, AC007934, AC005531, AC007066, AL035659, AC005003, AL022323, AC005221, AC005914, AC005071, AP000556, AL133355, AC002310, AC003043, AC006581, AC005632, AL121825, AC000353, AC003665, AC007536, AC016027, AC007308, Z97056, AC004552, AC006512, AC005011, AC005288, AL031291, AF207550, AL021391, AL049856, Z98051, AC007845, AC007938, U91326, AC002464, AC002094, AC004801, Z75744, Z86090, AL022316, AL023553, AC006139, AC004972, AC005793, AL035793, AL035072, AC004832, U91328, AC005826, AC004814, AC002039, AC006315, L78833, AL031427, AL109984, AL034417, AC004883, AC004913, Z97630, AL121652, Z82206, AC000026, AC002425, AC006379, AD000092, AC002316, AC006006, AL031680, AC004848, AC004099, AC005091, AL079340, AC005736,

				AL022313, AL035658, AL020995, AC005412, AL031005, AJ011930, AC009399, AC006115, AC005067, AL034429, AC004228, AL008719, AC006077, AC016830, AC005081, AL078477, AL008582, AL096791, AC001228, AC003663, AP000952, AL022311, AC003109, AP000031, Z99716, AC003957, AL033521, AC005089, AC006277, AC005037, AC008044, AC004922, AL021808, AC005841, AC006222, AF152363, AC005480, AP000513, AC007686, AF038458, AC004084, AL110280, AL035071, AC006974, AC004673, AL031657, AC005234, AL132712, AL034420, AL034379, AC005519, AL079342, AC003010, Y18000, AC005193, AC005399, AC007637, Z92542, AL031228, AC004031, AL035079, AC005358, AC005225, AC005932, Z95114, AC003025, AL049869, AC004686, AC004819, AL109627, AC007216, AC004745, AC005261, AC004756, AC006059, AC002072, M89651, AC004447, AC002430, Z84474, AC005899, AP000356, AC007314, AC002472, AC016025, AC005291, AC004150, AL031281, AC005527, AL031466, AC004033, AC005696, AP000504, AF001551, AL023807, AC002492, AC003101, Z95152, Z98941, AL022238, U95742, AL117337, AC007384, AC005411, U52112, AC005015, AL033533, AL049643, AC005229, AC006958, Z98749, AC006261, AC005500, AL121655, U91327, AL049780, AC005377, AC006312, AC000041, AF139813, Y07848, AC002059, AC010205, Z83822, AF003626, AP000008, AL133243, AC009247, AC007277, AF117829, AC007237, AC004223, and AC000025.
HHEAJ78	773538	1 - 342	15 - 356	T50165, T50113, AF083037, AJ131693, AC004013, AJ010770, AB019691, AF091711, and AB018346.
HHEAF06	935355	1 - 873	15 - 887	AA225048, AA486071, AA225002, AA259264, and AA259263.
HHEAD08	959305	1 - 913	15 - 927	AI653055, AW137083, AI206286, AI206167, AI825389, AI635444, AW020480, AW080157, AI572778, AI689157, AA830536, AI872787, AI561356, T49776, AI273189, AI613028, AI627360, AI951062, AJ010953, I89947, and Z82022.
HHEAC20	668948	1 - 445	15 - 459	AB023164.
HHEAA02	932265	1 - 618	15 - 632	AA206987, AA174038, AW408551, T85017, AW407690, AW383801, AW372047, and D38553.
HFSBE12	970629	1 - 306	15 - 320	AA343127.
HFSBB12	971571	1 - 411	15 - 425	AI247356, and AA342973.
HFSBB06	960835	1 - 312	15 - 326	AA687273, AA342970, AA490838, and AA651799.
HFSAZ51	725973	1 - 703	15 - 717	W85737, AA203160, W86374, H73352, H73608, AA342722, and AF085998.
HFSAX30	693419	1 - 370	15 - 384	AA342872, and N50158.
HFSAW27	684668	1 - 359	15 - 373	AA342834, AI968315, AI677905, AA868484, AI867702, AI914523, and T69593.
HFSAU89	785904	1 - 479	15 - 493	AL048376, AA302964, N52560, AA630004, AA526343, AA721530, R86160, AA713765, AI431513, AA078184, AA714073, F05830, AA363003, AI915081, AI884861, H99700, AI803741, F08866, AA741301, AW019964, F35684, AI520967, AI223968, AA663373, AA484892, AA079076, AI300818, AI310992, AA721523, AA678616, AA527954, AI859736, AI859906, AA078137, AI185394, R67701, AA579281, AA742949, N72607, AA664248, AA632556, AA657910, AA636102, AI276360, AA946848, AW084445, AI049701, AI678476, H84412,

AA642809, AA223512, AA748102, AA729755, AI955249, AA766414, AI890324, AA244181,
AA970967, AI002762, AI591134, N22153, AW079667, H79586, AA916430, W01323, AA640310,
AA572982, R02063, AA937809, AA074143, AW073498, AI343669, AI309121, AI929410,
AA595656, AI860535, AI753672, AI869786, AI802533, AI750950, R83068, AI459866, AI683019,
AW068596, H67172, AA297195, R88817, AA810376, AA610233, AA523330, AA578231,
AW392414, AW243945, D51809, AI077941, AA629731, AI927261, AA226770, R07452,
AW341882, AA807579, AA353168, H86579, N63897, T55459, T87883, AA573000, AA481765,
AA180775, AA757426, R08220, AA618180, H66755, H66832, AI279417, H86221, F31811,
R88803, AA298365, AA527877, AA298394, AA744410, T57077, AA515254, AW237905,
AA847427, AI678581, AA578973, AI434037, AA847508, AA593828, AA018923, AA371519,
AA862029, AA012829, H43183, AA602935, AI564301, AA961554, AA741403, AA683069,
R99076, AA713705, AA856866, AA745351, AA808036, H01243, AW105729, AA745468,
AA550959, R93642, AA515172, AA605243, AA740571, AA074351, AI348467, AI973173,
AI653783, AA745383, R64640, AI912401, AA653291, AA019003, AA551204, H66831, W35326,
AA434346, H90845, AW151761, AF169957, AA568127, AI863287, N52293, AI797998,
AA722505, AI871691, AI819262, N40092, AI471455, AI762302, AI583291, AI003137,
AA077637, T87102, AA513884, AI687343, AA620510, AI525789, AA738283, F17537,
AA747229, AI590404, U91318, AF064861, AC005081, AL132987, AC004796, AC003009,
AC003663, AL096775, AP000193, AP000049, AL021155, AC005089, AP000311, L34635,
U62292, AL096774, AL109827, AC005620, AC004491, AC004559, AC005971, AC005159,
AC003678, AL034417, AC005015, Z99716, U73167, AL009183, U90094, AL109963, L47234,
AC006597, U91320, AF045555, AC004815, U63721, AP000503, AC009363, AC007225,
AC000379, AC016027, U78027, AC002064, Z98946, AC006130, AC005037, AC016830,
AL034423, AL121754, AC007993, AP000030, AC006123, AC005940, AL049843, AC004998,
AL035422, Z69707, AF134726, AL030997, AL022302, AC005722, AC002312, Z73361, Z83826,
U73330, AL049538, AF097485, AL034351, AB012723, AC008989, AL049576, AC004901,
AC005663, AC008122, AC004891, AC003085, AL080250, AL035562, AC005664, AC004883,
AL022718, AL049875, AC006547, AC007182, AC007308, AC004585, AC006116, AC002563,
AP000117, AC004033, Z83819, AC005768, AC004382, AP000210, AP000132,
AC004785, AC005476, M84371, AC003690, AC007151, AC005225, AL035405, Z98304,
AL132712, AL035400, AC005291, AC005280, AP000128, AP000206, AP000248, AC007279,
Z83844, AC005920, AC004150, AP000300, AP000045, AP000113, AC006312, AL049793,
AL049869, AJ246003, AL020997, Z99758, I34294, AC009178, AC005827, U47924, U80017,
AF124523, AC007690, AC006079, AC004953, AC005519, AC008249, AC012099, AC000159,
AC003973, AL121658, AC005755, AL139054, AP000299, AP001068, AC004878, Z95331,
AL049636, AC003667, AC007528, AC003982, AF196779, AL031577, AC006057, U92971,
AF217403, AC005562, AP000245, AC007423, AL031407, L81909, U43589, AJ000219,

HFSAU84	8751	1 - 462	15 - 476	AF196969, AC002994, Z69639, AC004764, AC000075, AF037338, AC002082, AC000084, AC004653, AL049849, AC002491, AC005777, AL021546, AP000252, AL078585, AC004587, AC005353, AC005480, AI022322, Z99755, AB020861, AP000212, AP000134, AC004893, AL008639, AL049539, AL096772, AL035403, AC006084, AC004466, AF196972, AC004518, AL121825, AB017602, AC004849, Z92547, L78810, AL022398, Z84487, AC004967, AL050325, AL121603, AC006101, AL122020, AL049712, AP000350, AC009225, AC007263, AC007036, AC008064, AC010170, AC007637, AC006529, AP000501, AL022323, AC002365, AF015262, AJ229043, AC008044, AL079305, AC009501, AC005330, AC005531, AC004884, AL035458, AC006121, AC004409, AL096766, AL035652, AL022237, AL132985, AC005274, AC004590, L78833, AC005696, AC005247, U78308, AC004216, AC005004, AC004921, AC005006, and AL034548.
HFSAT96	8752	1 - 314	15 - 328	AA002008, and AA342765.
HFSAT48	8753	1 - 734	15 - 748	AA342649, AI417549, AI015042, AA937811, R10133, and AA809838. AW444617, AA127741, AII167643, AI766982, AA127805, AA026398, AI858903, AA026454, AI219704, AW150317, AA342691, and AB032980.
HFSAS86	8754	1 - 371	15 - 385	AA232575, AI640189, AI654402, Z39790, AI569812, AI628986, T32417, R77502, and AA232707.
HFSAR68	8755	1 - 496	15 - 510	AW242724, AL038812, AA847357, AA342457, and AA828137.
HFSAP25	8756	1 - 471	15 - 485	T91860, AA342526, and AL050343.
HFSAK31	8757	1 - 530	15 - 544	AA342210, and AA342211.
HFSAK14	8758	1 - 338	15 - 352	AA342217, T89445, and Z82204.
HFSAI68	8759	1 - 463	15 - 477	AA342239, AA453470, R88771, H67880, AA453977, and AC006017.
HFSAH34	8760	1 - 683	15 - 697	H98141, AA932231, H13331, AA342176, and AA774480.
HFSAG03	8761	1 - 482	15 - 496	AI608909, AA652060, AA342084, AA297662, AC009247, AC007021, Z73359, AC006305, AC003101, AC005531, AL049776, AL050318, AC007151, AF001548, AC005919, AC003049, AL117355, AL096773, AL022316, AC007637, AL022318, AL022329, AL022311, AL031602, AL023799, AC005670, AC002326, AC004531, AC000379, and AC005800.
HFSAF53	8762	1 - 439	15 - 453	AA187595, AW269861, AI684495, AW269881, AW087253, AA342077, AI468367, and AA972820.
HEOQI52	8763	1 - 399	15 - 413	AW088326, AI566702, T62825, AA483086, AA814532, and AA180167.
HEOPY91	8764	1 - 536	15 - 550	AA283977.
HEOOA49	8765	1 - 731	15 - 745	AW373840, R15032, and T97932.
HEONX61	8766	1 - 324	15 - 338	T91881, AB011135, AC005670, and AC005829.
HEONO64	8767	1 - 587	15 - 601	R98434, R98433, H59682, N54298, H59632, H62487, AW067991, and AB032993.
HEONO59	8768	1 - 848	15 - 862	W37916, AW369323, AL138197, AA292636, AA789205, AA278688, AI077497, AI670821, AW117287, AA608906, AA382777, AA724269, AA278680, AA827227, AI160796, AA600253,

HEONN02	8769	840210	1 - 364	15 - 378	AI990171, AA625768, W37874, AA421286, AA292637, AA844108, AA292637, AA844108, AA917528, AW316905, AA768446, and AF117210.
HEONL19	8770	575884	1 - 476	15 - 490	H81666, R20624, H02596, and AL109758.
HEONL09	8771	961147	1 - 142	15 - 156	AL042382, AW162194, AL079794, AL119399, AI698401, AI251221, AL079963, AI961589, AI382670, AI829990, AW438793, AI624293, AI811785, AI826225, AW080279, AL036980, AW075645, AI345347, AI824576, AI610667, AL037582, AL037602, AI783821, AA527133, AW022584, AI468872, AI919593, AI890507, AI690748, AI933992, AI446515, AI537677, AI538850, AI923989, AI963224, AI814087, AW170725, AI491852, AI559752, AI634224, AI280747, AI580214, AI868204, AW089233, AW128983, AI445115, AW075484, AI758309, AL046466, AA693314, AW130804, AI922075, AW050850, AL043168, AW081606, AI570872, AI648436, AL121496, AI434134, AI568138, AI628296, AI439745, AI917963, AI921254, AW148423, AI590118, AI564765, AI570966, AL119457, AI866457, AI349645, AW081902, AI623941, AW051088, AI470648, AW409775, AI541048, AI758437, AI802372, AI859991, AI926333, AL037639, AI890907, AI352326, AI307494, AW105601, AA983883, AI580674, AL036673, AW169604, AI670009, AW075482, AW022102, AI554821, AI340511, AI696570, AI916419, AA464646, AL038445, AI564259, AW088882, AI564234, AI540759, AW161156, AW020397, AI866465, AI698391, AI453487, AI446046, AI612885, AW102794, AW071689, AI590043, AI568060, AI620639, AA814990, AI538342, AW161735, AW079336, AI637833, AI802240, AW020710, AW150762, AW163554, AL043152, AI866770, AI277008, AI363957, AI609236, AI289310, AI263331, AI225023, F34800, AI859464, AW008166, AI813868, AI345688, AL048644, AI445069, AI690389, AI566670, AI423105, AI251485, AI621341, AI473536, AI624056, AI539863, AI683099, AI811353, AI744256, AI540674, AI269242, AI354283, AW022682, AW102902, AI830259, AI884318, AW104056, AI874166, AL042544, AI872423, AI744485, AI625209, AI819106, AI648508, AW081449, AW079572, AI812015, AI587156, AW189716, AI873704, AL046618, AI828412, R36271, AI700159, AW007555, AI468959, AI285448, AI352184, AA502794, AW029197, AI624548, AW080079, AI540754, AI890628, AW004886, AI539847, AI911648, AI582932, AI638798, AW051059, AL047172, AI624120, AI499621, AI687166, AI589267, AI318280, AI829327, AW054931, AI918449, AI423326, AI240602, AI620075, AW023338, AW167083, AI355849, AI683590, AI634305, AI687287, AW024564, AI254042, AL046595, AI569579, AI589428, AW085786, AL040694, AI525669, H89138, AI573167, AW149878, AI933926, AI969655, AW020693, AW188554, AI348897, AI610402, AI679550, AA641818, AI273094, AI521594, AL037463, AI284034, AW081143, AI540458, AL038956, AI343091, AI340627, AI784252, AI866090, AI312210, AI345416, AW167918, AI500061, AI491710, AI345612, AW243886, AI335426, AI305745, AI832457, AI241923, AF111851, AB016226, I48978, AL137529, Y11587, I89947, AL137648, AF205861, U49434, AR038854, S75997, AL049283, AF111849, AL049464, AL117394, AL137480,

HEONL06	8772	935516	1 - 402	15 - 416	AF132676, AF061836, A08916, Z97214, AL032822, AF087943, AL080140, S36676, M30514, AL137292, A08910, A08909, E02221, X63574, A08908, AF069506, AL110296, AL137574, X96540, AL137665, U77594, AF079763, U86379, AF017152, AL137527, AL080148, A18777, A08913, AJ010277, AJ005690, AL110280, AL049300, AL110197, AL122100, A08912, AL096751, I48979, I89931, AF113019, AL133637, AL122050, AL122098, AL137550, AL137533, U80742, AF106657, E01614, E13364, I89934, A58524, A58523, X81464, AF078844, I49625, AR020905, AF113694, AF067728, X79812, A77033, A77035, AL049314, E01314, U87620, AF061795, AF151685, I09499, AJ003118, AF177401, I00734, AF047716, E00617, E00717, E00778, AL110225, AL050092, U75932, AL137459, AL050170, Y11254, AF094480, AF106697, AL137547, AL080126, AL133619, AR034821, AL117432, AL122121, AL050277, AF113699, AL137560, AL117416, AF183393, I17544, AL137711, AL050138, AL110222, AL137521, AF061573, AF026816, L04849, AL110196, I33392, M96857, Z37987, E07108, AL050149, AL133016, AL137558, S68736, U35846, AL110218, X72889, AL122110, AF113689, AL049339, AB007812, AF058921, S76508, AL137479, U88966, A15345, AF126247, AL049466, AF090900, A07647, Y07905, AL050393, A21103, AF113677, AR038969, AF090943, AF097996, AF118070, AF162270, U58996, AF176651, U00763, AL050155, AI133113, X93495, U42766, AJ006417, AL122123, I89944, AL137463, S61953, X06146, A08907, AF113690, AF100781, X82434, A07588, AL137557, X99257, AL137478, AL080159, X80340, AR029490, AF031147, AF153205, AF159615, AF026124, AL117457, Y14314, AL023657, A45787, I66342, AL050108, AF061981, AL133568, A52563, A12297, AL117435, AL137548, AF102578, AF057300, AF008439, AF057299, AR011880, AL122049, AL049430, A90832, AL117460, X84990, AL049465, A03736, I68732, AL133558, Z82022, S77771, D16301, AF125948, AL133565, U49908, AF091084, S78453, AL117463, U92068, AL137271, X63162, L30117, E06743, AL049452, I32738, AL133010, AL133606, AF113013, Y10080, X63410, AL117648, AF028823, AF017437, AF118094, A76335, Z72491, AJ238278, AL133075, U00686, AF040751, AF158248, AF146568, AL122093, AF030513, AF061943, E12747, Y16645, AJ000937, U67328, AL050172, U55017, AL133557, AL110221, AL117440, and X83508.
HEONK37	8773	707505	1 - 467	15 - 481	AC006211.
HEONK10	8774	964757	1 - 328	15 - 342	H01559, and R27733.
HEONJ18	8775	575888	1 - 325	15 - 339	AI159943, and AL109755.
HEONI92	8776	792772	1 - 589	15 - 603	T49908.
HEOMX03	8777	922962	1 - 592	15 - 606	AA812058, AA659324, AI582769, AA441788, AL041014, AA708352, AA572960, AL040800, AA810370, N32030, AA553439, AA649642, AI538540, AI445815, AI252506, AII39895, AW082744, F17700, AW265073, AI049831, AW028908, AA678436, AA904253, AI623899, AI270476, AI582890, AA601222, AI888405, AW272641, AA847741, AA810318, N64587, AW276984, AL119691, AA503600, AI623563, AA448838, AI028540, AI090334, AA599063,

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HEOMX01	8778	913683	1 - 545	15 - 559	AL049843, AC009248, AC004744, Z70274, Z97055, AC002300, AC005588, Z93023, and AL022334.
HEOMV61	8779	506231	1 - 513	15 - 527	AW263864, AI609972, AI708009, AA136526, AA501614, AI473838, AA584201, AL041706,

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HEOMQ68	8780	753075	1 - 270	15 - 284	T94453, and T94541.
HEOMQ04	8781	931032	1 - 848	15 - 862	N98652, AI718741, AI744439, D59305, AI192651, AI799507, AII85182, AA150851, AI367734, AI689723, N92449, AA070453, N62281, AA045938, AW129608, AA478529, AW250169,

HEOML91	8782	667931	1 - 300	15 - 314	W31286, AA045823, AA780299, AA449362, AW237037, AW008432, AA449623, AA886147, AI924764, N66129, N77569, AA737269, AI796181, AA328292, AA523165, AI934498, AA083786, AI291525, AI475558, AA384850, AA919079, AI928049, AA532529, AI933049, AW021922, AA548761, AW383474, AW383521, AI536641, AI568378, AI280669, AI815855, H43514, AI694909, AA669083, AI912666, AI864383, and I76237.
HEOML76	8783	575927	1 - 211	15 - 225	Z99716, AC004491, AC003029, AC003037, AC006071, AL049874, AF064866, AC006501, AF111167, and Z96074.
HEOMH63	8784	745146	1 - 416	15 - 430	AA931871, and AC006211.
HEICC56	8785	733383	1 - 154	15 - 168	H72530, N72717, W52505, R84302, AC005328, AC007136, AC004587, AP000694, AC005086, AC005562, AC005231, AC004104, AL024498, and AC004841.
HEIBB84	8786	781994	1 - 394	15 - 408	AA777270, AW207152, AA018758, AA019256, and AA620301.
HEIBB31	8787	697987	1 - 337	15 - 351	AA424812, and AW085011.
HEIBA15	8788	888667	1 - 414	15 - 428	
HEIAX24	8789	677177	1 - 358	15 - 372	AI365988, AW406755, AA587256, F29989, AI358229, AW193265, AI613280, F36273, AA482711, AW029038, AI284640, AW276827, AI350211, T58118, AI570261, AI431303, AI345654, AI281881, AW303196, AW274349, AI434695, AW438643, AW301350, AI334443, AI619997, AI270117, AA826303, AA649642, AI963720, AI918421, AI610159, AW265385, AW088202, AI299050, AI904894, AI254615, AA491762, AW327868, AI358571, AA503015, AA682912, AA653618, AA469451, AI039790, AA843450, AI564185, AA573020, AI358501, AA613227, AA559290, AI567076, AA610491, AI305766, AW270270, AL038785, AA525190, AA587604, AW103758, AA507547, AW276435, AA720702, AI249997, AL047427, AA586458, AI368745, AI801600, AI919265, AA503154, AA581903, AL044940, AI801482, H84783, AA259245, AI307608, AA503258, AW021583, AI732120, AI792518, AW080134, AI457397, AI434706, AI583612, AA810318, AW021207, AA846935, AW406447, AA657918, AW008952, AW071196, AI251436, AI053790, AI267818, T53607, AI890923, AW439558, AA483771, AW088846, AI049722, AW166815, T15977, AI929531, AA148489, AW419262, AA630925, AA837084, AA623002, AI567674, AI281903, N94233, AW304584, AI471481, AI355206, AI754658, AA491284, AI792505, AI688846, AW193432, AI339850, AI251002, AL037683, AI866856, AW238278, AA713815, AL138455, AI133636, AW162049, AW339687, AA515051, AI962050, AI937850, AA847499, AW023389, AL119691, H71429, AA062722, AI754253, AI083946, AW083402, AI886629, AA513141, AW062724, AI133164, AI446464, AI061334, AI635272, AA525824, AA482681, AA631507, AI358343, F28204, AA652057, AA488746, AI499503, AW440836, AI653886, AL048925, AA229785, AA501872, AI368256, T29180, AA501614, AA348929, AA502963, AA503473, AI334435, AI250552, AA664407, AI654247, AW304805, AA669251, AI312309, AW020992, AA834667, AA113186, AW167799, AA099892, AW020141, AI251034, AI254770, AI589230, AA659083, AI192631, AW261871,

					AI903462, AA584145, AI469003, AA578918, AL046409, AA640986, AI696962, AL138265, AI223626, AI568678, AI291124, AL044858, T08914, AA654771, AA857486, AL043719, AA569471, AI654588, AI298710, AW104748, AI345681, AI345675, AW302117, AW236342, AI284543, AI249853, AI890918, AI344844, AF015160, D83989, A39972, X55930, AF077058, U18398, U57006, I51997, AF015167, U57005, U57009, U18391, U18392, L35531, U18394, X55925, U18390, X75335, X54180, U18395, X55926, U57008, X55932, X55924, M37551, AC004647, U18387, AF015153, U57007, U18396, U18399, X55931, X54179, X54175, X54181, X54178, U18400, X55928, U67801, X55922, AF015156, AF015166, X53550, AC004019, AC007216, X55923, AL035681, AF015157, S75201, AF015158, AF015151, U12584, U12582, AF015162, U67221, X54177, AL022476, U12580, U95742, AC005971, AF015171, AL031662, AC000097, AF015148, AF015169, AC007666, Z22650, S48196, AC006547, AC005778, AF015149, X55927, L47228, AF015170, U57004, U11309, AF015147, AL031257, AC005069, AC016025, AC005566, M96868, AF015150, AC004854, AC004802, AF019114, AC005736, AC002984, AL031274, AL023879, U02532, AL049776, U67831, AC005081, U67231, AC006441, AC008134, AC006040, AC004224, AL049757, AI135744, AC001231, AC006481, AC005747, AP000966, D88268, AC005048, AL049636, AC007151, U67234, AC007773, AP000567, U02507, AL035071, Z49816, U14718, AF015168, AC008033, AC007043, S43650, AC004139, AL021391, AF015165, AC005841, U14719, Z84480, U67832, AC000052, AC004967, AB023049, U12581, AP001043, Z82180, X74558, AC005531, D87008, AC007227, AC007064, Z98050, AC002395, AL109759, U35114, AL080243, U50570, U14713, X96421, AC010197, AP000023, S75337, AC004417, U02531, U18393, U14714, AC004947, AC004812, AC005520, AC000353, U67229, AD001527, AL035423, AC004686, AJ229042, M87919, AC003109, AC005354, AL031256, AL031121, U67825, AF064861, AC006030, AL031904, AL031282, AC005084, AC005924, AC004668, Z93241, AC007447, AC005544, U67233, AC000004, AC007363, AC005280, AC003003, AC004263, AL121934, AL080276, U14711, U14712, AC004408, AC004889, AL050097, AL049635, AC005064, AC004913, AL031073, AP000275, U91322, AC005231, AC016026, AC004534, AC004918, U67211, AP000512, AL078472, U67235, AC008039, AC006305, AC004890, AL035415, AF064863, AC000083, AL033543, AP000432, AC006548, AL078644, AC004544, AC005257, AC002364, AC000075, U14715, AP001172, AL031255, Z97876, AF135028, AC004066, AL008582, AP000105, AP000037, AP000513, Z93023, AC004894, AC006285, AC002128, AF010238, AL022316, AC012599, AC004838, U67226, AL035089, AL133382, AL035659, AL136295, AC004964, AF110324, AF015725, AC004671, AC006312, AL049764, AC005756, and AP000252.
HEIAX11	8790	967272	1 - 412	15 - 426	
HEIAU39	8791	861503	1 - 354	15 - 368	AI951431, and AW166781.
HEIAR07	8792	953626	1 - 396	15 - 410	AW291698, AW449355, AA077663, and AI624833.
HEIAJ39	8793	705643	1 - 388	15 - 402	AA160979. AA262593, AW055245, AA765419, AI268356, and AI919028.

HEIAI86	8794	785680	1 - 200	15 - 214	T52922, T52923, and AC005368.
HEIAD76	8795	574163	1 - 267	15 - 281	AI355103, F23338, AA503307, AA503142, AI246996, F34506, AA484892, AA507814, AI791659, AA523695, AA365586, AA720582, AI031759, AA587316, AA745524, AI590442, AA714011, AI053673, AA744001, AW304592, AA504951, AA779783, F09355, AI251429, AI580707, AI818362, F17700, AA311357, AA810158, U73647, AC007227, AF196969, AP000501, AC002347, AL031905, AP000300, AP000045, AP000113, AC005632, AC006050, AC007016, AC007536, AC005829, Z95152, AL049548, AC004815, Z69837, AC006965, AL121595, AP000248, AC001228, AL050307, AL049569, AC005914, AC002551, AL133163, AP000555, AC006088, AC004985, AC005516, AL008718, AL109984, AC007435, AC005701, AC002369, AC006505, AC006312, AL023575, AC005375, AP000260, AC006011, AL020993, AL022316, AC005104, AC006077, AF111168, AP000099, AP000116, AC002126, AC008928, AF002223, AP000036, Z99496, AC002316, AC005520, AL021154, AC006241, Z93024, AL049760, AC008115, AC007899, AL031597, AC006455, AP000500, Z84466, AC002425, AP000141, AC005102, AL022326, Z97056, AF207550, AC005587, AC005015, AC007055, AP000088, AC002364, AB023049, AF049895, AC006511, AC006344, Z95114, AL121923, AC005180, Z84480, AL034417, AC004129, D87675, AL022721, AC005089, AC004752, AC004893, Z98200, AC002554, AC005531, AC005231, AL031295, AL117258, AC004674, Z83826, U29953, AC005616, AC016026, AC005544, AC009336, AC003042, AC007292, AC003003, Z95113, Z81364, AC004522, AC005332, Z93017, AC003042, AL049643, Z84469, AC006121, AL133246, AL035588, AC006930, AC004526, AC006409, AL022165, AC004851, AC004876, AC005837, AL034371, AC004811, Z97630, AC007993, and AC004844.
HEIAC62	8796	745672	1 - 245	15 - 259	AP000011, and AP000153.
HDTMJ27	8797	851806	1 - 498	15 - 512	AA434364, AA631736, AI051874, AA460723, AA502498, AA471086, AI025722, AL132985, AC004447, AC005261, AL031432, AC004560, AL079305, Z83838, AC004030, AC005776, AC005387, Z70050, Z73986, AC007240, AC011604, AL031782, AC004821, AC006222, and AP000164.
HDTLI05	8798	928253	1 - 488	15 - 502	AA769122, AL044520, AL042431, AI042431, AA648784, AI208877, AI024841, AA804545, AW340113, H82877, R64372, R64371, and AL137391.
HDTLE28	8799	851830	1 - 454	15 - 468	AA916035, AI246061, AI054090, AI249853, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, N74027, N71579, T60940, AA687542, AI251241, AI223626, W63553, AW303098, AA434346, AA636102, AA827383, N22153, AW073498, AI929410, AI753672, AI750950, AW167909, AW407585, AW019964, AW410286, AI018726, AI860535, AA365893, AL039309, AA468289, AI732682, AI720943, AA653823, T08386, AA133472, AA714073, AI927261, H86579, AA448050, AW089950, AA211734, H43183, AA665304, AI354369, AA018923, AA012829, AL039930, AA559166, AI902426, AA741301, AA094597, AI570805, H63220, AA169234, AI755057, R68503, R99581, AL138065, AW082076, AA527109, T74259, AI174703, AW057873, AA179981, AA657910, AA837796, AI537020, AA084950.

R48980, AA564753, AA411590, AA68266, AA256107, AA599749, AA856866, AA743968, AA837739, AA513884, AA610374, AI133580, AA386055, AA527954, AA429481, AA214457, AA605020, T03928, AI355559, AW238495, AL037006, AW274525, AA748102, AA593036, AI298079, AA515351, AA704037, AI087843, AA424249, AI348467, AA736713, W60035, AA135988, C14599, AI908424, AI871691, AI284105, H30595, AI471455, AW392887, T06518, AI671077, C14576, T03401, AL037777, AA502230, AW082742, AI989742, AI687343, AI459866, AA744095, AI124779, C14880, AA678950, AI761566, AA282231, AI799421, AI434365, H24957, H45806, AI201668, AA501371, AW407632, AI383965, AA321523, AA227858, AI399872, AW151761, AA077796, AA572743, AL031685, AL096712, AP000501, AC002350, AC005952, AC004383, AC020663, AC008085, AL031728, AL021808, AC005920, AC004922, AC002565, AC005815, L44140, AC005926, AB020874, AC004000, L78810, AC005088, AC005971, AC002477, AL031659, Z83851, AF064859, AC004000, L78810, AC005088, AC005971, AC002477,
AC005666, AC007308, AC002470, AL031255, AC004874, AC004913, AF196969, AL031132, AL035659, AC010197, AC002070, AC005821, AC005015, AF165142, AC006021, AC004132, AC007685, M15366, AC005328, AF196970, AL049694, AL035086, AC006057, U58047, AC003689, AL035249, AC007533, AC006263, AF181896, U72788, AF030453, AC003029, AC007051, AC005181, AC007225, AP000503, AP000067, AL034427, AC005903, U95741, AL008582, AC002483, AL031666, AL008730, AC004941, AC005375, AL035070, U95743, AL139054, AC004682, AC004051, AL031602, AL022320, AL021879, AP000065, AL021393, AC008044, AF165926, Z97054, Z94277, AB014460, AC003030, AC005600, AP000201, AC004934, AP000097, AC004056, U91323, AC004801, AC005386, AL109628, AC007100, AC006070, AF116548, AF029062, AB000876, AC004181, AC004560, M89651, AC005210, AP000230, AP000506, AP000144, AC002394, Z85987, AL035587, AC003007, AL109967, AL132712, AC004999, AL031670, AC006001, AL021578, AB000882, AC002543, AC005184, AL049712, AC005531, AC006083, Z98884, AC005225, AL022721, Z98949, AC004963, AC004491, AL080243, AC006538, AC003685, AL022476, U85195, AF111168, AE000658, AF015262, AJ229043, AP000362, Z98751, AB016625, AC004628, AC008975, AL031575, AL008725, AL023575, AL031230, Z97989, AC005585, AC004832, AC005224, AC007736, AC007066, AC004125, Y10196, AF023674, X54486, AL049849, AL031447, AC005630, AC012085, AP000240, AL133445, AL133275, M33132, AP000319, AP001064, AC000075, AC003072, AC000084, AD000091, AC002491, AC006277, AC006942, AB015355, AC005778, AC005619, AL121923, AC004656, AP000228, AC003678, Y07848, AC005067, Z73358, AC004975, AL031594, AP000167, AP000052, AP000120, AC002375, AC005663, AF155238, AD000092, AL008583, AP001065, AC004815, AL031657, AC004638, AC006251, AC000026, AC004876, AC007114, AC005664, AC004477, AL022398, Z97205, AC007388, AC004685, AF196779, AC005722, AF002223, Z99943, AL136295, AC005209, AC005387, AC004685, AC006543, Z98044, AC005670, AF027390, AF217403, X77825, AL049713, AF134726,

HDTLB90	8800	969209	1 - 721	15 - 735	AB029343, AC003036, AL031718, U29895, AB023059, AC004195, AC005546, AC005391, AC004834, AP000509, Z99570, and AL009181. AI341704, AI142398, AA813273, AA743887, AI936676, AI075351, AA910854, AI022782, AI147388, AA707809, AI191594, AW149648, AI359585, AA310281, AI189686, N66573, H08536, AI262892, N95604, AA741331, AI248487, AA868324, W02990, N22795, AA262629, AA609701, AI093401, AA659738, H87698, AI027373, AI027121, AA978057, AA983525, N48015, AA720012, AA447262, AI356159, R59460, AI678874, AI952101, T34018, AI142529, AI690064, AA441994, AA992142, N35367, AI187027, AI421750, AA768375, AI079205, AA447137, AI569001, AI860552, AI826993, AI306687, AW080519, AI381210, AI582792, AI040724, AA243615, AI004382, AA586674, AI336096, AI241252, AI591409, AI499068, AW026852, H08537, AW008824, AI123841, AA627439, N72902, AI369126, AI611839, W73025, AI336409, AA441993, AA837530, AA806979, AI886595, AA301661, R59400, T35913, N98833, T25882, W25044, T31881, T81454, H87190, R27910, AI560041, AI560047, T25881, AA723754, AA436622, R27815, AA748322, T81453, AA680083, AI348535, AA861174, AA687982, AA336442, H86836, AF161514, and Z57379.
HDTKX61	8801	806340	1 - 657	15 - 671	AL040934, AI354583, AI811104, AA102590, AI955210, AW005356, AI923908, W72822, AI869691, AA776240, AI097401, AI241672, AA610244, AA136144, AA432194, AW029577, N57854, AW026450, AI913174, AI439590, AA676743, AW173719, AI912350, AII126189, AI246619, W15338, AI573143, N62095, AA632265, AW262961, AW338014, AA599002, AW080405, AW342043, AW170642, AA977345, N57753, AA809373, H24394, AA046519, AA648676, AA159091, AI032839, AA136030, AA583776, H28894, AA848077, F33112, AA910294, AW016492, AA678502, AI916065, N88118, AA350391, R44633, AA082176, H03994, W72821, AW166715, AW149167, H45880, N78326, AA046611, R44522, AI245126, R16997, H03195, AW021036, AA355730, AA598543, AI873982, AI203820, AI559841, H27347, AI590119, AA724015, AI243914, N76000, AW271164, AA482202, AA344508, H28893, H62505, AL117455, and AC004466.
HDTJP10	8802	963456	1 - 606	15 - 620	AI355562, N27028, AA501942, AA365628, W32376, AA365629, AI733856, AW069227, AA847499, AI634187, AW328331, AW023111, AW327624, AA410788, AI791185, AI457313, AA526683, AI284640, AI859438, AI821076, AI056177, AW069769, AA904275, AW341903, AA630854, AI287766, AI491765, AA502991, AA584489, AI254770, AL046409, AA581903, AL079734, AI755214, AI754567, AA228778, AI114557, AA535216, AA515351, AI284543, AI431303, AI754105, AI282479, AW407578, AA809546, AI251034, AI223626, AI250552, AW085751, AI251284, AW271904, AI963720, AL135377, AA669155, AI923050, AA833875, AA833896, AI186438, AI912401, AL047349, AW193265, AW026305, AII133552, AI457397, AW303098, AI305766, AI251203, AI421950, AI419337, AII114733, AW265688, AW023672, AI249853, AW303196, T74524, AI310670, AI199816, AA513851, AW419262, AI049676, AI278440, AI277373, AI284126, AII133164, AW029515, AI587349, AI473995, AW274349,

AW275432, AW301350, AA916430, AI349130, AW021583, AI332615, AA640685, AA613627,
AI049630, AA129746, AI679002, F36273, AI267269, AI361090, AW328000, AW157005,
AA469451, AI270117, AA491814, AI017251, AW169038, AW073470, AA832016, AW328446,
AW167330, T05834, AA584484, AW088846, AI380617, AA610433, AI267356, AI267450,
AI669421, AI446623, AW084445, AI065038, AI560085, AI345681, AI345675, AW277253,
AP000555, AC005216, AC006509, AC004455, AC007488, AC004963, AP000114, AP000046,
AL008583, AF196972, AC003101, AL022323, AC002470, Z93848, AC005527, AL049760,
AC006236, U63721, AC004000, D84394, AL049776, AL049643, AC004253, AF111167,
AL033527, AC007786, AC005015, AC007216, AL133163, AP000302, AC005261, L78810,
AC004109, AC004921, AC003662, AC005409, AC005006, AC002991, AC005529, AC004027,
AC002456, AC004386, AL139054, U62292, AC004975, AC005088, AC007151, AF196779,
AC006946, AP000563, AC006088, AC005606, AC005971, AF165926, AC007277, AC002316,
AP000211, AP000133, AL132777, AL035423, AL020997, AI022163, U78027, U91323, Z82206,
AC000353, AB001523, AC004797, AL031683, AC005697, AC005972, AC006080, AC006333,
D87675, AC004526, AP000103, AC005907, AL023284, AL035422, AC007546, AL096702,
AC010205, AC005005, AC007227, AC005736, AC006511, AC007066, AC005089, AC002314,
AF108083, AD000090, AL031589, AC004953, AC007406, AC007664, AC007308, AB026899,
AC007934, AC005363, AC002492, AC005184, AL035420, AC005486, AF196969, AF001549,
AC002301, AJ003147, Z98752, AC005619, AC005921, AC006157, AC002480, AC005399,
AC006014, AC003663, AC007919, AL109952, Z93023, AC007537, AC005484, AC007878,
AC003014, AC006238, Y10196, AC005274, AL035695, AP000553, AL133448, AC005288,
AC007172, AC000397, AC006312, Z84466, AC005207, AC000025, AC003109, AC005482,
AL109829, AC005844, AL078615, AC004033, AC002288, AC006285, AC004032, AC020663,
AL035086, AL133245, AL109623, U95742, AC005591, AL049631, AC005225, AC004895,
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AC007011, AF207550, AD001527, AC006449, AC005368, AC006050, AL034417, AF114156,
AL049856, AC002045, AC003036, AC004534, AC008064, AC005578, AF031076, U80459,
AL034549, AC008056, AC005618, AP000031, AC004967, AC005940, AP000500, Z98050,
AC004821, AC004890, AL050307, AC005082, AC004234, AF053356, U52112, AC005666,
AL049839, AC005763, AC006556, AC007242, AC003963, AC016025, AC005338, AL024498,
Z85986, AC007911, AC005331, Z83840, AC008273, AL023575, AC005701, AL110502, U47924,
AC005220, AC007637, AC005183, AC007225, AP000557, AC004596, Z69917, AC005488,
AC007193, AL096791, AC005669, AC005581, AC005755, AL020993, AC002059, AC004099,
Z82254, AL035684, AC007731, AC005520, AC004835, AC005500, Z82243, AC002117,
AC004602, Z83826, AC004815, AL035079, AL034548, AC005095, AL035413, AC006026,
AC006023, AC009946, AC003102, AL031650, AC005083, AC006071, AL031721, and
AC005094.

HDTJF29	8803	1 - 676	15 - 690	AI250783, AW391672, AI240525, AW390571, AW391632, AW392670, U46347, AL119324, AL119457, AL043003, AL119484, AL119399, AL119439, AW384394, AW363220, AL119319, AL119443, U46351, U46350, AL119391, Z99396, AL119363, AW372827, AL119497, AL042544, AL119355, U46349, AL119522, U46341, AL119444, AL119483, AL119418, AL119396, AL134530, AL134519, AL134528, AL119341, AL134531, AL037205, AL119401, AL134132, AL134527, AL043147, U46346, AL119335, AL134533, AL119464, AL042542, AL119496, AL134538, U46345, AL042614, AL043019, AL042989, AL042450, AL042984, AL042965, AL042975, AL043029, AII42134, AL042551, AB026436, AR060234, AR066494, AR054110, A81671, and AR069079.
HDTJF05	8804	1 - 589	15 - 603	AA425488, AA496895, AA300351, H55595, AP000556, and AP000557.
HDTIO74	8805	1 - 520	15 - 534	AW293197, AW293194, R09230, AA550736, and AA210814.
HDTIO16	8806	1 - 708	15 - 722	W26496, N57723, N52977, AA004838, H56093, N32636, H54711, R97812, AA422017, AI434982, R34827, AI365246, AW149465, N53236, R97527, W04839, W27301, W17360, AI952152, AW197683, AW300911, R93262, AI627239, AW368243, AW118723, R81605, AW301730, AA347582, N42589, AA521269, AA279227, N35846, N55666, AA279276, AW207386, AA744257, AI791321, AI791441, AA401856, W73744, AA912709, W32659, AI457999, AA035799, W73796, AW149460, AI952156, AA825542, AW043735, AA279170, AA843886, AI004999, AI204320, H43539, AI928422, AI453601, AA628709, AI887910, AA814386, AII38354, AF072880, AF112205, AL110243, AF106683, AF069313, AL110269, AF033186, AF106684, and AF147442.
HDTIG62	8807	1 - 500	15 - 514	AA700898, AA768022, AA813637, AA737687, AA767493, AI590110, and AC004585.
HDTIA48	8808	1 - 760	15 - 774	AI686160, AA758552, AI051885, AL039783, and AA890108.
HDTHU79	8809	1 - 570	15 - 584	AA284279, AI027731, AI200797, W47103, W47227, AI693941, AW298283, AI222304, AA815341, AI216510, AA813403, and AF086197.
HDTHS05	8810	1 - 887	15 - 901	AA253336, AA252921, AA253337, W22197, H27708, R53233, M85815, AA428556, AI745023, AW367630, AA922917, AW363034, AA705731, H66556, AI952500, AA676981, AA640067, T31521, R02288, H70507, AA011599, AW089024, AW368517, R59789, AA298276, AA878199, H91633, R06356, N99822, and AB018271.
HDTHP45	8811	1 - 436	15 - 450	AC007458.
HDTHI02	8812	1 - 468	15 - 482	AA441986, AA441987, AI051488, AL119444, AL119363, and AL134538.
HDTHG69	8813	1 - 347	15 - 361	R05736, and AC001226.
HDTHE32	8814	1 - 686	15 - 700	AW295293, AA005236, AW293791, AA564263, AA005235, and AL024494.
HDTHA77	8815	1 - 594	15 - 608	R54682, T83899, AA028933, T86103, AI700021, and T83729.
HDTGT62	8816	1 - 479	15 - 493	R10737, R10755, and AW206939.
HDTGQ31	8817	1 - 368	15 - 382	W57998, AA082443, AI979163, N50386, AA730309, AA282104, AL046056, and AF191338.
HDTGH10	8818	1 - 399	15 - 413	AA968621, and AA911679.

HDTGC27	8819	1 - 417	15 - 431	T84741.
HDTFX46	8820	1 - 489	15 - 503	T91421, AI244540, W95696, AA513866, and Z69706.
HDTFT42	8821	1 - 552	15 - 566	AA251180, and AA284335.
HDTFR93	8822	1 - 654	15 - 668	R56502.
HDTFN38	8823	1 - 592	15 - 606	N67992, AA018753, AA216176, and AC007283.
HDTFI27	8824	1 - 635	15 - 649	AI424830, AI457466, AI670852, AW188237, AW339932, AI373737, AW299809, AW299801, T65024, AI215514, AW268571, AI275416, AI806477, AI420494, AI431933, AI697604, AW194622, and H18633.
HDTFG15	8825	1 - 518	15 - 532	AI948523, AI870933, AI056919, AI951357, AI669067, AI421240, AI829531, AW026102, N95469, AA761710, AI422906, AI985084, R39935, AI500548, T58434, AI971673, AI620958, AI368450, AA825904, AI950288, T58466, T16707, AA903364, AI648626, AA262655, D25575, C21036, and AA255726.
HDTET62	8826	1 - 753	15 - 767	AA058837, H85875, AA866204, D62678, and AW023681.
HDTEJ57	8827	1 - 462	15 - 476	H14223, and R90827.
HDTDS89	8828	1 - 258	15 - 272	AL121748.
HDTDS44	8829	1 - 430	15 - 444	
HDTDP20	8830	1 - 412	15 - 426	T11249, AF207598, AF157833, AF205065, and T11264.
HDTDP02	8831	1 - 436	15 - 450	N46884, AI741360, AA677764, R10708, AI751761, AA694111, AI333381, AW305001, AI538973, N71175, AA779766, AI589032, AI086570, AI761580, AI885734, AW131854, AI028092, AW054930, AA843208, AI188410, AI457118, AW338608, AA574231, AA224194, AI221082, AI149382, AA918408, AW166459, AI332782, AI183618, H46974, AI359210, AI969702, AF151872, and AL110239.
HDTDL15	8832	1 - 405	15 - 419	AW119198, AW268984, AW291411, AI699375, AI538081, AI880221, AI989588, AA936261, AA744022, AA744306, AA744319, and AA744343.
HDTDJ44	8833	1 - 521	15 - 535	AI003653, H92228, AI370273, AA708248, AA018367, AA069415, H85653, H86634, and AA017687.
HDTDG89	8834	1 - 403	15 - 417	
HDTDD88	8835	1 - 426	15 - 440	AA496215, AA196044, U53093, AA496217, AA055124, AA055135, and AW387762.
HDTDD72	8836	1 - 520	15 - 534	AI459473, AI065079, AI207423, AI064695, AI133218, AI133420, AI133314, AI061660, AI064797, AI888487, AL037870, AL037849, AL048429, AI884494, AI833147, AI717995, AI709394, AI832355, AI924211, AI720552, AI653760, AW007608, AI064831, C18852, AA669077, AI174665, AA468404, AI750150, AA533828, AI133004, AA659265, AA594949, AL037048, AA630170, AI912529, AI434498, AI459425, AA575977, AW275829, AA886596, AI215649, AW270021, AII124928, AA578589, AA548849, AI832732, AA098789, AI628930, AW004905, AI720986, AA630251, AI683207, AW149630, AA886490, AA595864, AI028073, AI880409, AW188463, AA075342, AI635477, AW168232, AI720912, AII133259, AA226261,

Clone	No.	Range 1	Range 2	Accession Numbers
HDTDD70	8837	1 - 453	15 - 467	AI766356, AA493969, AI557254, AW166013, AA650306, AA481885, AA224000, AA643797, AA522984, AA630934, AA635953, AA640561, AA081407, AA487595, AI523371, AA928597, AA641058, AA196188, AI174946, AI720139, AA223926, AI207597, AI917042, AA485715, AA715869, AI114770, AI581199, AI282481, AA434248, AA888285, AI457496, AA661972, AA610388, AA655025, AA654984, AI566184, AA565126, AA579042, AA468098, AI619745, AI281861, AI880360, AA846579, AI566210, AW148749, AI673024, AA490180, AW439689, AI459556, AW151854, AW105642, AA565898, AA640469, AI114764, AW276852, AA653781, AA487063, AA494046, AI440020, AI719804, AA557411, AA525479, AI133099, AA554077, AA151927, AI749073, AA180944, AA564042, AI719813, AW264074, AA831811, AW170761, AA689249, AA658941, AA578602, AI749006, AI819696, AI557330, AA458961, AI525681, AA664578, AA708303, AI708946, AA541550, AA569249, C17580, AA069723, AI832960, AA715954, AI832523, AA621867, AI459634, AA152380, AA978232, AW165955, AA429018, AA487982, AA171686, AA469406, AA640693, AI133698, AA483365, AI453511, AA987421, AI630887, AI289950, AA654821, AA932808, AI907036, AA523493, AA092811, AA782565, AI110646, AA127653, AA524676, AA594572, AA707831, AA987694, AI224374, AA642859, AA665359, AI749484, AA886120, AA226553, AI749741, AA654759, AI220859, AA130968, AI830077, AI110645, AA216405, AI879900, AI798362, AA467980, AI748977, AA503933, Z98453, C18031, AI863894, AW270540, AW129234, AI207835, AI560053, AA192171, AA635254, AW005658, AA702315, AA635387, AA180752, AI636965, C17988, AI871732, AA552550, AA825856, AL036180, AI002449, AW073816, AA630259, AI832769, AI557197, AI281571, AA075402, AI832630, AI833305, AA229013, AA433875, AA149604, AA468444, AA659277, AI582341, AI720352, AA652848, AA661464, AA523743, AA148381, AA635244, AI833268, AI833301, AA209412, AW005955, AA715602, AA654048, AA216162, AA129443, AI253348, X62996, X93334, D38112, V00662, J01415, AF134583, X93335, D38116, D38113, Y17171, Y18001, S55589, Y17179, and AF004340.
HDTDD67	8838	1 - 458	15 - 472	R07618.
HDTDD15	8839	1 - 415	15 - 429	AA358812, AA308023, and AA419289.
HDTDC74	8840	1 - 501	15 - 515	AI018089, AA488552, T30640, T71401, W31697, AA165100, R08686, H78637, N90337, T99588, Z41909, W25292, AA165080, R79674, R34212, N77082, N78438, AA150886, T82168, T85462, R77046, W56864, H95034, AA888217, R19848, AA314539, W25298, AW408479, AI114871, U83194, and AF121856.
HDTDC64	8841	1 - 424	15 - 438	R00207, R08120, AJ001417, and AF078749.
HDTDC38	8842	1 - 613	15 - 627	
HDTDC30	8843	1 - 276	15 - 290	H09128, AW276933, N51140, AA321595, AA975915, AI273675, AW183603, AI268564, AI138918, AA741020, AI371804, H20669, AA446782, AL041398, AI798242, AA720913, H30560, AA721582, AA828045, AA831638, AA774960, R95030, AA528688, AI610376, N47882,

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HDTDB37	587699	1 - 719	15 - 733	AA018755, AI332451, R45788, and AA247911.
HDTDB21	587700	1 - 699	15 - 713	W57976, W58117, AA642370, and AC005332.
HDTCC55	934923	1 - 1574	15 - 1588	W37285, AI680188, AI691024, AA258999, AA088201, AW410652, AI694271, AI016276, N76343, AI278104, AA496721, AI765185, AI078368, N54377, AW206705, AA708774, AII193198, AA708517, AA689584, AI467892, AA745781, AA189110, AA843476, AA258177, H65702, AA707076, AW071574, AI092665, N49617, W37798, AI240773, H73843, AA188896, H65703, AW075591, H73169, N68588, AI683084, AA279200, AI224604, AA894491, N46923, and AC007253.
HDTCC01	916455	1 - 660	15 - 674	AI026818, AII44071, AI370045, AI311520, AI308578, AI334555, AI521589, AI952780, AA643261, AL080011, AA834534, AI862385, R81679, AA828045, AA360609, AA133293, AI671661, H90114, AL118912, T51942, AI560119, AA420729, T94072, AA809186, AI332671, AA535483, AW189804, AA721581, AW167202, AI679747, AL137705, AL110280, AC004883, AC004966, AL117337, AC004987, AL021393, AP000020, AC007390, AC002365, AL035420, AP000355, AC004686, AL137479, AC005086, AC004690, AL031732, AF113694, AD000813, AL022318, AF196779, AC005902, AC006561, Z77249, AL031984, AP000133, AP000211, AC007993, AP000504, AL035458, Z83820, AC006241, AC012085, AC005940, AF205588, AC005225, Z99297, AL022320, AC002314, AL031295, AC005920, AL033397, AC002563, AL121603, AC006059, Z83838, AL034400, AC005291, AC002477, AC007172, AC007308, AF109907, AL035461, AL008637, AC004383, U62317, AP000013, AC002312, AL035407, U91323, AC005091, AL035587, AL049795, AC005320, AL034417, AF179633, AL031230, AC007262, Z96074, AC000026, AC006112, AC005320, AL034101, AP000344, AF196972, L78810, D84401, AL022316, AF042090, Z94721, X87344, AC003101, AP000250, AP000030, AC006236, AC004822, AI022165, AL021155, Z49258, Y07848, Z92542, AC005924, AF095901, AC004560, AC005527, AB023053, AC002287, AP000556, AC002527, AP000250, AP000030, AC006236, AC004822, AC004841, AC016027, AC004513, U95739, AL021407, U80017, AC005911, AC020663, AL117339, AC005207, AC005488, AC004659, AL031281, AC005670, AL023284, AF129756,

HDTBZ83	842950	1 - 441	15 - 455	AC002558, AP000130, AP000208, AL034374, AL050318, AP000045, U85195, AP000247, AC004943, AC003950, AL031289, Z85987, AC004191, AC005820, AF024533, AL031228, AE000658, AC007030, AI003147, AC018767, AC004797, AC006504, AC007656, AC005088, AC005081, AL096774, AC002072, and AC005229.
HDTBV06	935393	1 - 476	15 - 490	AI652677, AW374334, T08905, and AF196972.
HDTBU73	764410	1 - 707	15 - 721	AI199248, and AC002076.
HDTBT35	706730	1 - 786	15 - 800	R08992, and AA029661.
HDTBS91	789425	1 - 541	15 - 555	N32495, N94866, AI239947, AA714897, AA400836, and AA639185.
HDTBS45	591589	1 - 450	15 - 464	H20657.
HDTBR39	705350	1 - 768	15 - 782	AA777234, AA705296, AI240824, AI982752, R07024, R07066, and AL110235.
HDTBP84	783024	1 - 488	15 - 502	AA460387. AI767149, AA494182, AI927682, N74958, W05656, AA603309, AA747756, AI249573, AI433008, N49368, AA486131, AA349927, AI271126, AA661921, AI040342, H71429, AA279421, AL041619, AA490183, AL138455, AA838190, AI345157, AA584805, AI284640, AA618452, AW275510, AA984295, AA834707, AI270117, AL037683, AI694130, AW084466, AI963720, AA635739, AI580250, AI687343, AI700109, AW023865, AW069769, AI583283, AI953275, W45625, AW302903, H52274, AW102846, AI370074, AL045053, AI307608, AA634889, AI696962, AW088846, AA747070, AA584692, AA216412, AW264934, AL119713, AA101689, AW021735, AA179045, AL042420, AW024042, AI027459, AW169038, AI084294, AI821494, AA613397, AA584167, AI393931, AI305766, AI744826, AI805363, AI217936, AW163293, AW072487, AA584167, AI393931, AI370094, AW021597, AI431303, R24887, T41247, AW168618, AL046205, AF034184, AI370094, AW021597, AI431303, R24887, T41247, AA601673, AL038705, AW263415, AA811710, AI799642, AW149156, AC004030, AC004626, AC005066, AL049766, AF091512, AL021707, AC006041, AC002067, AL109865, AL080250, U95742, AL121603, AC003691, AC004933, AC005914, D83989, AL031665, AP001172, AC003101, AC004979, AC007590, AC005541, U02531, X55925, AC000354, AP000228, AC003119, AP000140, AL078604, Z82210, AC006155, AL035410, AP000088, AC006459, A67988, U67231, AF135028, Z69666, AF061032, AC004940, AC008168, AC003692, Z98046, AC004901, AC004204, AL035402, AL035462, AC004232, AL031300, AC005387, AL008728, AL023755, AL121591, AC002564, AL022322, AC005998, AL035608, Z78022, AL035659, AL049544, AC007043, AL022163, AP000365, AC004987, Z98753, AC004028, AC004130, Z86061, AF227510, AL034452, AC003075, AC005026, AC004638, AC005048, AC003683, AP000548, AL096861, AC003977, AC004592, Z94721, AC004861, AL049649, AC004069, AL031904, AC002430, AC004691, AC004690, AC006998, Z84469, AC006058, AL031311, AC008033, U91326, AC007214, AF042090, AC006512, AC005242, AC006213, AC002549, AC005220, AL023284, AC010202, AC007384, AL049834, AC010170, AC007514, AP000962, AL133445, AC006045, AL031123, AC005291, AC007298, AF001549, AC006288,

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HDTBM53	8856	727526	1 - 138	15 - 152	AC005666.
HDTBM31	8857	697918	1 - 514	15 - 528	AI668673, AI668675, N93503, N93496, and AI734225.
HDTBK62	8858	742603	1 - 208	15 - 222	AA568869, AA515334, AA661921, F12561, AA689526, AI580250, AW149313, AI873990, AI524360, AI583283, AA468022, AI886432, AA468131, AA724333, AA580808, AW438643, AA468244, AI247199, AA483771, AW168618, AW196064, T89972, AA063173, AA526536, AA828749, AI824706, AL036037, AI919265, AA501762, AW274349, C04454, AA577959, AI284640, AW438853, AA857486, AI873852, AA482681, AA526758, AA665199, AW303196, AA491797, AA467820, AW264934, AA595499, AI431303, AA535406, AA309530, AA812281, AA644070, AI801482, AW301350, AW193265, AA490183, AA526779, AI350211, AL119691, AI636730, AA515905, AA847516, F29184, AL044858, AW408047, AI003751, AA526630, AI305766, AW270382, AA782304, AW023990, AL120933, AA113182, T51054, M86120, AA469451, AA679532, AL046409, AA579366, AL047427, AA618206, AA188664, AI345157, AI889388, F17891, AI613280, AA631507, AL048626, AA602047, AA502103, AI610435, W45625, AW407578, AA650208, AA584201, AL042853, AI358431, AI754658, AL119724, AI860013, AI869406, AI687343, AA847622, AA516226, AL118991, AW050734, AA225072, AI797903, AW074419, AA581903, AA828042, AI816141, AA569471, AA362511, AA505854, AW270258, AW328171, AW327868, AA629992, AA584805, AI281881, AL120269, AW103758, U57005, U18388, X54179, L47228, X55929, X55933, U18390, X75335, U67825, U18400, X55925, U18394, U18395, U57006, U18392, U18398, U57009, X55927, X74558, U18391, X55931, U67826, I51997, U57007, U18393, U18387, U57004, X55926, X55923, X54177, X54180, X54178, AF015148, X55922, D83989, X54181, X54175, X76666, AF015149,

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HDTBG80	8859	916167	1 - 821	15 - 835	AA075174, AA780368, AA608609, AA116112, N23422, AA426183, AA919127, AI051104, AA778513, AA861163, AI263419, AA844710, AI308998, AI016753, AI146269, R89012, AA875826, AI334311, AA832331, T66141, AA890409, AA594107, H57164, W93467, AA447722, AI276282, T58760, AA805142, AI150612, AI660146, AI271554, AI306121, AI911815, AI223452, AA417020, N56558, AA553689, AA424729, F09765, AI193223, AA972680, AI707534, AA748812, AA860315, AA116113, AW136275, W47365, AA740503, AA447882, AP000223, AP000085, and AP000086.
HDTBD67	8860	899636	1 - 2233	15 - 2247	AW242597, AW069086, AI148152, AI125778, AI431242, Z99396, AW392670, AL044652, AA362688, AL134524, AA362689, T29199, AA362690, AW372827, AL119522, AI432646, AL119457, AL119324, AL119319, U46351, AL119401, AI431305, AL042551, AL119484, AL119391, AL043019, U46350, U46347, AL037205, AW384394, AW363220, AL119418, AL119497, AL119355, AL119363, U46349, AL119439, AL119443, AL134525, U46341, AL119444, AL119483, AL119341, AI142139, AL119396, AL134536, AL042544, U46346,

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HDTAU14	8861	658429	1 - 219	H91918, AL137201, and Z84572.
HDTAT80	8862	911928	1 - 2399	15 - 233
HDTAP53	8863	728216	1 - 338	15 - 2413
				15 - 352	H48102, W39066, N57359, H53255, H63515, H70625, N54141, R96510, N57848, R97064, AI653538, AA745302, AA502532, AA808982, AA338193, D82544, T63054, AA373861, F08866, AA579188, AA356249, AA295039, AI270177, AA282951, AA525379, AA297698, AW419389, AA018517, AI917132, AA308598, AA975894, AA805018, AA715418, H86665, AA808847, AA568314, AA055987, AW243884, AA481887, AA180781, R96427, AI336026, T50251, AA808843, AA610433, R48980, AI918419, AA411590, AA909816, AI273148, AA678845, AA420691, AI742168, AA583579, Z97053, AC006011, AC007225, AP000555, AC005412, AL109758, AC006449, AL049569, AP000087, AC002425, AL024498, AL133448, AC005874, AF134471, AL117258, AL031291, AC007308, AC005753, AC006088, AC004408, AC000085, AL021920, AF196969, AC005399, AL109984, AC005071, AC004883, Z95152, AC010202, AC007066, AC007388, AC005330, AC002369, AL049694, M89651, AC005632, AC006130, AC008040, AC005048, AC002350, AC007637, AL009178, AL133163, AD000092, AL121769, AC002300, AC004805, AF172277, AP000694, AC005011, Z83844, Z83826, AC004933, AB023049, AC005696, AL021154, U80017, AC004996, AC002351, AL035072, AC008126, AC006001, AC008928, AC007917, AF001550, AC000353, AC005089, AC004841, AC005520, AC005726, AC005009, AC005828, AF165926, AF001548, AC002059, AC006160, AL109801, AL031003, AC004985, AP000700, AC005480, U85195, AF107045, Z97832, L78833, AL035417, AL022311, AL132712, Z84469, AB000882, AL031311, AC004019, AL022238, AL031666, AC006312, AB016897, U52111, AC004560, AL022343, AL035587, AC004923, AC004922, AL049795, AC007860, AC002040, AC002040, AC004851, AE000658, AC004447, AC007565, AC005037, AL133245, Z84466, AL031848, AC004000, AL121825, AL136295, AC004967, AP000269,

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HDTAH15	8864	840327	1 - 703	15 - 717	AA151989, AA053806, AA877780, AI990954, AI761757, AI884981, AI359275, AA883559, AA029799, AI334302, AI927450, AI885711, AI401339, AI418850, AW089486, AI147258, AW007192, AW291421, AI423057, H92988, N21120, AA115357, AI400311, AA114858, AI052732, W78047, AA291538, AI458414, AI222211, AI568379, AI887327, AA526168, AA827153, AI127813, AI351870, AI400322, AI093742, AI148093, AI129777, AA479087, AA114856, AI082454, AA993306, AA419256, AA977759, AA885007, AI689072, AI085769, AA401889, AI225066, AA115236, AI359661, AI289273, AI582790, AI569549, H37803, AA193281, W81178, AA115458, AA293486, AA953381, AI084597, AW438966, AW300931, AA152074, H80087, AA115479, Z39506, AI423394, AI095106, AA916116, T79202, AA428124, AA479241, AA256520, AI571788, AA778279, AI474234, R94519, AA114855, AA634164, AA114857, W79466, AA593584, AA992871, AA031498, AI659464, AW339599, AI868579, AA614435, AW169783, T30237, AA035792, R06984, AA258598, H78840, T30871, H94218, R93668, AI873150, AA031544, AA258627, T79289, N31135, AI802277, AA302935, AA256627, AI015755, H37853, AA321801, AI828773, and AI953237.
HDTAE60	8865	810259	1 - 306	15 - 320	AA905241, R07845, AA484618, AA876674, AA927025, AA969580, AW015956, F27760, AI560279, AI077875, AA657632, AW274260, AI130748, AA531437, AA888258, AA926970, AI344732, AI039009, AI832645, T25895, AA664996, AI309287, AA244132, AA541603, AW363453, AW363455, AW373552, AW373548, AW363452, AI150756, F30920, AI289147, AI537640, W80487, AA780729, AA603795, AA864997, AA524049, AI023676, AA947143, F20520, AI911004, AI000638, AI283651, AA704855, C04467, AA694524, F22719, AA534561, AA694164, AA627396, F27644, D59538, AA318284, F33783, F33364, AI686496, F27676, AA903996, AA244131, F35313, AW373558, T74772, F33405, D51606, AW363451, AA730436, AI749712, AW363456, F30071, AI708982, F24555, N80149, F27522, R98804, AA317435,

HDTAE44	8866	799902	1 - 397	15 - 411	F30100, F34894, F22313, F35771, F33982, AW373549, AA096277, AA327732, AC008044, and AC008372.
HDTAE29	8867	780991	1 - 435	15 - 449	F07105, and AL080219.
HDTAE16	8868	661997	1 - 425	15 - 439	AA292713, AW170280, AI091066, AA112320, AA740290, AA469117, H07025, and AA632483.
HDTAE09	8869	799874	1 - 404	15 - 418	AI564468.
HDTAB89	8870	786039	1 - 383	15 - 397	T78925.
HDTAA31	8871	937609	1 - 1420	15 - 1434	AI219793, AA629254, AW104724, AI567846, AI590227, AI439717, AI568855, AW148320, AW151485, AL036361, AI538716, AI702068, AI828731, AI445025, AI538829, AI536638, AI637584, AW132056, AI890833, AI926790, AI432969, AI564719, AI811344, AI619502, AI802542, AW026882, AI538259, AL079963, AW103371, AI433157, AI702073, AI866801, AW262565, AI815855, AW198090, AI269862, AI269205, AI801766, AI634737, AL047763, AI249257, AI624206, AL036605, AI921248, AI696612, AI274508, AW149869, AL043981, AI871697, AI627360, AI491852, AI889376, AL043326, AI682841, AI524671, AW008048, AW087445, AI349004, AI249323, AI274541, AW268220, AI439745, AI499393, AI872711, AW301505, AI480118, AL040243, AI287489, AW085799, AI783504, AI620284, AI612913, AI559296, AI569583, AA470491, AI254731, AI677796, AL036396, AW301409, AI500523, AI580984, AI431327, AI521012, AI284484, AI625079, AI590128, AW071349, AI800453, AW071417, AI570909, AI440239, AI537303, AW087207, AL036146, AI635461, AL045266, AI648509, AW403717, AL036403, AI610756, AL135661, AI445432, AI571909, AI308032, AI922901, AI284131, AI340582, AI702406, AA225339, AI591316, AL045500, AW118398, AW274192, AI269696, AI819326, AI560099, AI446628, AI633419, AI289937, AW086113, AL036802, AI687728, AW090013, AI815232, AI758437, AI539780, AI567128, AI500706, AI250293, AW148363, AI224992, AI799199, AI554427, AA508692, AI818683, AI801544, AI499463, AI590999, AI952360, AI636445, AI273048, AW118512, AW131954, AW149851, AI539771, AW196141, AI612920, AI567351, AI554484, AI868831, AI912866, AI571551, AI690312, AI270707, AI275175, AI281837, AW238730, AI281779, AI570384, AI349772, AI857296, AI537677, AW002342, AI590120, AI475451, AI569616, AI571861, AI433976, AI702433, AI572787, AI273142, AI282281, AW082040, AI609593, AI673710, AW075351, AI925156, AI886753, AI612759, AI281762, AI281762, AI869367, AI784252, AI349933, AI800433, AL121463, AW075413, AW166903, AW427700, AI500077, AW051258, AI349645, AL038565, AI624084, AI498579, AI445165, AA427700, AI866002, AW148408, AW166583, AW268251, AW080327, AW169653, AI648684, AI634345, AI610645, AI491897, AL038779, AW074993, AI349614, AI690480, AI521040, AI866608, AI343112, AI580190, AI920968, AW169132, AW195968, AI348897, AI862144, AW268253, AI567612, AI349598, AA835801, AI925196, AI097410, AI312152, AI687127, AI636719, AL539153, AL036265, AI345735, AI312428, AI431975, AI630928, AI687362, AW075084, AL134259, AI950664, AI349937, AW073270,

Clone	SEQ ID	No.			Accessions
					AW089572, AI271786, AW129659, AI610690, AI307708, AL043293, AI500659, AI921379, AL044207, AI753683, AF090901, I89947, I48979, AF090934, A08913, I89931, A08916, S78214, Y11254, AL050116, X82434, AF113013, AL133557, I48978, AF090903, AF113690, AF106862, AL133016, AF078844, AL050393, AF104032, AF113689, AF111851, E03348, AL137459, AL122093, AF113699, AF113019, AF113694, AL117394, AF113677, AL137557, Y11587, AR059958, AL110221, AL117457, S68736, AL117460, AL050149, AL133093, AL133080, AL133640, X84990, AF091084, AF113691, AL110196, AJ000937, AL049314, AL080124, AL137527, AL122121, AL133075, AF125948, AL133565, U42766, AL122050, AL080060, AL050108, AL050277, A93016, AL049452, AF090900, AF090943, AB019565, AF158248, L31396, AL096744, L31397, AF118064, AF118070, AL049466, AJ242859, AF017152, AF125949, AF113676, AL050146, AL080137, AL133606, X63574, Y16645, E07361, AF090896, AF146568, AL133560, AL050138, AF079765, AL049938, AL122123, A65341, I49625, AL110225, AR011880, AF177401, AL137550, AL137283, U91329, E02349, AJ238278, A08910, AF017437, AL117583, A08912, E07108, X70685, AL049464, AL049300, AF097996, AL049382, Z82022, AL117585, U00763, AL049430, A08909, AL137271, AL137538, AF067728, A77033, A77035, A58524, A58523, AF118094, AL117435, U35846, AL133113, AF183393, AL122098, AL137463, X65873, AL050024, I33392, AL133392, A12297, A03736, X96540, U39656, AF061943, AL110197, S61953, AF111112, U67958, I09360, X98834, AR000496, U39656, AL080159, AL137476, X93495, AL080127, AL133568, AL133072, AJ012755, AF095901, AL137523, I42402, AL137521, Y09972, I66342, A93350, E08263, E08264, AC006336, E15569, AF026124, Z37987, A08911, I00734, E00617, E00717, E00778, AL137560, I26207, AF119337, AC004093, Y14314, I17767, AF153205, AF026816, AR038969, AL133077, AL050172, AF185576, AL133104, AR013797, AL137429, AF003737, AL117440, AL110280, AL137526, Z72491, M30514, AJ006417, AL122049, AC004690, AL133014, AF106827, AF057300, AF057299, AF162270, AR038854, AL133067, AL137556, AL122111, AF079763, A07647, AF000145, AL117432, AL137533, U58996, AC004200, U96683, X83508, AF100931, E05822, L30117, AL080074, AC010072, AL137539, AF061573, E02221, AL137480, A45787, AF008439, E04233, U68387, E06743, AF118090, AF067790, AL133098, AF111849, Y07905, AF081197, AF210052, AL137478, U49908, X62580, AL122118, X87582, AC006371, AL080158, E08631, and AF100781.
HDRAC08	8872	963325	1 - 436	15 - 450	AL040453, AA111930, AW245617, AI066425, AI281116, W73913, AI887964, AA707826, AA983585, AA147338, AI279720, AI285091, AI796028, AW016807, AW207093, AW301179, AI825596, AI910479, AI376001, AII60598, AI208192, AI033830, AW137387, AA975620, AI760601, H59137, AW242126, H24343, AA551994, AI767833, AA998692, R20517, R44410, N64714, AW198035, D82491, AA857846, D20263, AW339377, W19642, F13806, D82398, AA147361, AW176269, AI828332, AI758798, and W04598.
HDQPR06	8873	936658	1 - 815	15 - 829	AW276983, AW206541, AA418882, AI298636, AA290805, AA127225, AW368344, AI762472,

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(continued)					T73087, AL119313, AI335529, AA774869, AI291928, AI338925, AF112221, and AB020678.
HDQPP57	8874	926953	1 - 711	15 - 725	H80171, AA971126, and T80926.
HDQII08	8875	958252	1 - 456	15 - 470	AA010427.
HDQHU84	8876	782202	1 - 431	15 - 445	AW135842, AI185102, AI521545, N71336, AI374790, AI093509, H47630, AA580199, AI870424, AI935765, AA973252, AI538850, AI249946, AI909661, AI679550, AA514684, AW167422, AI687482, AW026905, AI933992, AI432570, AI684164, AI370322, AI440444, AI591407, AI250627, AW075921, AI817543, AI610318, AA243996, AW366372, AI963191, AI954721, AI242931, AI356929, AI270039, AI890391, AI570264, AW152415, AI089970, AI921746, AI679214, AI570857, AW089932, AI491904, AI624693, AI803740, AI682121, AI539800, AW265004, AW166612, AW090102, AI446785, AI811912, AI830187, AW105565, AW167215, AW192461, AI439903, AI918370, AL046942, AI365256, AI687568, AW236186, AI922996, AI309589, AI685822, AI630947, AI829893, AI952306, AW131994, AI783569, AW020480, AI689614, AW170773, AW168503, AW163464, AI758988, AW008085, AI680498, AI653402, AI540179, AI470293, AW082532, AI569616, AW169234, AI582900, AW104117, AI539687, AW088438, AL117635, S78453, AL133557, AF159615, I80062, S61953, I66342, AL137547, AL137298, U89906, AB007812, AB025103, AF114784, AL137471, AJ003118, AF182215, AL117648, X89102, AF194030, X59414, X84990, AL133559, AF109683, AL133113, E08517, E15582, A21103, AF131773, Y08864, AF207750, A08915, A18777, AR029580, U70981, I22020, AF192557, AL133062, AF061981, AF207750, AL133084, U75378, AL137268, AB028451, AF106945, AL137294, E01963, AF114170, AL133084, AF065135, AF132676, AF200416, AF061836, AL117443, X62773, AF000145, AF028823, AF065135, AP000083, S78214, AL137539, AR038969, AL080148, AP000148, AP000083, S78214, AL137539, and N71386.
HDQHO94	8877	793387	1 - 114	15 - 128	AA211827, and AA256750.
HDQHJ04	8878	926978	1 - 630	15 - 644	AA592982, R17976, AI014353, AA584604, AI982975, and AW206259.
HDQGW10	8879	963512	1 - 464	15 - 478	AW207166, R62452, AA570462, AW131259, U95742, and AC007216.
HDQGF78	8880	772952	1 - 546	15 - 560	R83407, and AC003086.
HDQFT10	8881	852587	1 - 685	15 - 699	AA864468, AI733017, and AI791415.
HDQFJ39	8882	852593	1 - 805	15 - 819	AA765774.
HDQFE93	8883	791724	1 - 1181	15 - 1195	T75255, H82395, R21558, H15880, F12818, Z42224, R13241, and F12817.
HDQEX85	8884	875473	1 - 495	15 - 509	AA002220, H63472, AA307783, AA478844, AI676034, AW364878, AI174745, AI682476, C04105, AA481986, U47346, R10969, T49897, and AL096740.
HDQEW83	8885	780551	1 - 582	15 - 596	AA128013, AA128008, AA128056, and AA128032.
HDQEW11	8886	966126	1 - 316	15 - 330	AA525048.
HDQET29	8887	852618	1 - 459	15 - 473	T70748, AA584765, H86388, AI801563, AW167773, AA662629, AA572718, F27846, AL031427, Z97630, AL050318, AC007308, AL035423, AL109628, AC006121, D79206, AF053356, AC005255, AC006064, AC005592, AC005102, AJ239325, AC005971, AL035443, AL132777,

HDQEQ10	8888	963533	15 - 632	1 - 618

AC004228, AL022316, AL121595, AL021391, AL021578, AC005361, AL096817, AC001052, AC007899, AL008582, AC005844, AL031670, Z81002, AP000688, AP001052, AC005377, AC005527, AL031295, AC007546, AC006312, AL049761, AL078602, AP000504, AC012627, AC005516, AL034553, AL022313, AF111169, AC006985, AC004985, AC002347, AC005529, AF129756, AC005412, AC002470, AC003109, AC004254, AC006453, Z99716, Z83822, AC004253, and AC005610.

AA58617, AA825712, AA806536, AI537533, AI336120, AA506386, AA721171, AA559219, AI754064, AI754257, AL041375, AI086603, AW148507, AW069227, AI933714, R22196, D29248, AI623764, AI283329, AA233462, AA113757, AA584125, AA714110, N95424, H66812, AA127426, AA669155, AW245331, AW272606, AI300597, AI524360, AL037910, N23896, H29019, AI065031, AI738741, AI417496, AA347232, AI904840, AA608729, AC007151, AC004587, U37450, AC004797, AL021392, Z84488, AC004883, AJ009632, AJ006997, AC004955, AP000694, AC003962, AC005899, AC006441, AC004743, AL021155, Z95116, AL049570, AP000359, AC007227, AC005776, AC000159, AC005399, AC006511, AC006285, AC004887, AC006084, AC003109, AC005589, AC007637, AL035694, AC004821, AL031289, AC007226, AC004820, AC002316, AC005519, AC007263, AC005520, AL133448, AF053356, AC006948, AP001065, AC004799, AP000116, AL035450, AC000007, AC005781, AC002091, AC006111, AL049795, AC006538, AC004382, AC005081, AC004383, AC008055, AL031005, AL139054, AL031228, AL050321, AC002558, AC004583, AP000553, AC004225, AC009516, AL049538, AP000348, AC006101, AC003071, AL031584, AC005164, AP000049, AC004031, AC006449, AC005225, AC005971, AC008126, AL035249, AC005249, AC005940, AC004526, Z93244, AP000311, AC007688, AC007566, Y07755, AL031293, U78027, AC007376, AC005280, Z86090, AC005800, AC002429, AC005529, AL031293, U78027, AF001548, AL121653, AC004019, AC007386, AL035422, AP000689, AC004148, AC004973, AF064857, AC006014, AL121658, AL034553, AC005828, AC007055, AC004771, AL132641, AJ003147, AC003108, AC006077, AC004895, AC006241, AL049552, AC005288, AC006271, AC004703, U85195, AL078583, Z93023, AF111168, AC005082, AC002310, AL031311, AC007040, AC005859, AC005484, AC005754, AC007066, AL049576, AC002310, AL031311, AC007040, AC002398, AE000658, AL031427, Z81450, AL035458, AL031058, AC005202, AL035555, AC004884, AC005521, AC004834, AC004927, AB022537, AL008710, AC006130, AC007563, AC005548, AL117354, AC005317, AC006581, AL034417, AC004686, AC005527, AC003663, AL031277, AL109952, AC005011, S67859, U80459, AC002126, AL022476, Z95152, AL109628, AC009247, AC001226, AC022329, AL049569, AC006536, AF030453, AC007536, AC004755, AL031280, AC005345, AC007868, AL035400, AC002369, AL031053, AC005667, AL031276, AL009031, AC002994, AP000502, AC002326, AL118510, AP000117, Z98036, AF134726, AC005088, AL135960, AJ131016, AC006486, U91323, AL035409, AL022322, AL049643, AC005486, AC002036, AC003042, AL022313, AC008115, AL133353, Z98946,

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HDQEJ46	8889	957666	1 - 411	15 - 425	AW015127, AA767375, AA282147, AI431780, AL120806, AI581323, AI291483, AI050841, AA968963, AI949457, AI309633, AI434775, AI766201, AA130608, AI359445, AI278918, AI445485, AA629098, AA262437, N72677, N21390, H96796, AW118308, AI770085, AI797434, N72690, N50924, W81605, AI371344, AA287019, W31464, R12476, AA694478, T99090, AW273672, H72374, D21015, AW059628, and AC003999.
HDQEF93	8890	791753	1 - 464	15 - 478	AI820722, AI820696, AI732275, AI732300, AI478997, R50557, R48764, and R48866.
HDQDX89	8891	786323	1 - 977	15 - 991	N41950, and N33234.
HDQDT10	8892	963482	1 - 593	15 - 607	AI078356, and AA889808.
HDQDG73	8893	761957	1 - 586	15 - 600	W05421.
HDQDC74	8894	764985	1 - 323	15 - 337	AI866951, AI339309, AI417802, AII26514, AI275133, AW138502, AA738256, AA732499, AI016178, AA157007, AI203233, and AJ006266.
HDPYO08	8895	958454	1 - 520	15 - 534	AI285860, and AA595438.
HDPXZ28	8896	686188	1 - 670	15 - 684	AW002414, AA587218, AI337851, AW341392, AA016317, AW043859, AW148813, AI968429, AI370931, AII86481, and AI796475.
HDPXW88	8897	631353	1 - 344	15 - 358	AA259064, AA657952, AII43075, AA594872, AI087206, AII49739, AI244822, AA725667, AA056110, AI093167, AI050824, AW024987, AI493689, AI200955, AA454906, AA400067, AA649907, AA436620, AII41148, N31844, AA132154, AA419249, AA402818, AA573258, AI074184, T61071, AA994420, AI339724, AI094655, D80744, AI160520, AA210767, AI885410, AA652366, H19641, AI365036, AI884689, AA733140, AI621277, D80807, AA018419, AA631598, H41099, AA626841, AA579798, AA861445, AI150344, W58172, AA812861, AA041404, H20476, AI339583, AA954727, AA324170, AI372711, AI817408, AA948293, AA507208, D80745, AA400850, AA320028, AA534640, AA534821, N72499, AI380715, AA779645, AA830821, AW023338, AW023613, AI348895, AI336495, AI335426, AW020693, AI312210, AW269097, AI336513, AI037454, AL048644, H41759, AA572758, AI310940, AW104056, AI310930, AI888621, AL037454, N22276, AA420722, AW162189, AW020095, AW021717, AI340603, AI288285, AI538764, N22276, AA420722, AI559752, AL048340, AW071417, AL047422, AI538885, AL040586, AI036832, AL039086, AL038564, AI690536, AI307557, AI348854, AI567582, AA291456, AW058233, AI312353, AI887775, AW020710, AA421957, AI336633, AI554343, AI345567, AW084056, AI349256, AI344935, AI312152, AI307494, AI310575, AW071362, AL036274, AW403717, AW075084, AI340627, AI310925, AI538850, AI312399, AW268072, AI335363, AI334884, AI307543, AI340533, AI348897, AI345251, AW071412, AI349937, AL045620, AI307708, AI345666, AI312325, AW071395, AI648567, AI340659, AI345143, AI689420, AI311159, AI340511, AW059828, AI340644, AI345397, AL036705, AI334930, AW071377, AI307520, AI345688, AI349186, AW084097, AI340664, AI310592, AI307542, AI309443,

AI309391, AI345745, AI345739, AI345674, AA470491, AI312143, AI349637, AI344843, AI334920, AL040694, AI310927, AW020419, AL038605, AL047344, AI307578, AI349955, AW075093, AI349960, AI312432, AI312357, AI961589, AI921254, AL041150, AI312993, AI890507, AL037649, AW161579, AI312237, H89138, AL046463, AI377163, AI349622, AI636619, AW162194, AI349213, AA580663, AI114703, AW020397, AA042949, AI345347, AL119836, AI866465, AL039276, AI312428, AA493647, AA464646, AI702065, AI242248, AI267162, AI340519, AA468418, AI345415, AW238688, AI923989, AI254226, AL134999, AI433157, AI348917, AI345396, AI955945, AI473536, AI702073, AW131999, AI866770, AW152550, AL046618, AI690748, AA579232, AI567953, AI612750, AI799195, AA635382, AI885989, AL040011, AI446495, AI349276, AI540674, AI815232, AL080163, AL080234, AF058921, AL050024, AL117583, A08916, A08910, I89947, A08909, A08907, I48978, A08908, A08913, A08912, S76508, AF094480, AL133016, AL023657, AL137556, I89931, AF079763, X53587, AR038854, I49625, AJ010277, AL137658, AF090934, AF028823, A18777, AL050092, A03736, I89934, AL080074, AF090943, AL137560, AF118090, AF158248, AR059958, AL117416, AF114818, AL050116, AF113013, S77771, X79812, M86826, E01314, A23630, AL133010, AL049300, AF111851, AL137550, AL110224, AL050138, AL137548, U49908, AL122110, AF113690, AF114170, AL049382, U58996, AL110296, AL117649, AF026124, A07647, AL117457, L04504, X63574, S78214, AL133560, E01573, E02319, AL080060, AF100931, AF126247, AF097996, AR000496, U39656, AF069506, X72387, U53505, I03321, AF113676, AL137558, AF008439, AL133113, Y07905, U42766, Y11254, AL049430, X52128, Z37987, S69510, AL080126, AL117435, AL137641, U35846, I89944, AB016226, AF113677, L19437, S36676, AF067728, AF153205, AF000301, X96540, AF078844, Z72491, AL080158, X92070, AL133606, AL049465, AR011880, Y10080, S63521, AF051325, X70685, AL137271, AF200464, E15324, U68233, I92592, AL137529, AF090903, AL080140, AL117440, AL137656, AF016271, AL080137, U78525, AL133080, AF061573, D83032, U88966, AL137537, AL137276, AF169154, AL080086, AR020905, E04233, AF176651, AL137459, AL049452, U68387, AL050108, E15569, U51587, A58524, I48979, A58523, A15345, AL080124, A08911, AL133067, X87582, AL049347, AJ238278, AF017790, AL110158, AF090900, S68736, X57961, AF090896, AF137367, AL110222, AL137476, AL049464, AF113694, AL110225, AL133558, AJ242859, J05032, AL080127, AF061795, E08631, AF151685, AL012755, AF113691, A08915, AF026816, X81464, AR068751, AL050393, X93495, X65873, AJ012755, AF017437, X06146, Y16645, AF118094, AJ000937, AL122050, X63410, S75997, AF091084, AL080154, AF111849, AL117460, I17544, E06743, AB007812, I33392, X80340, AR029490, AL080154, U62274, AF125948, AF177401, AL122093, AF106657, AF090886, AL133075, M27260, A90832, U62274, AL137521, AL137292, AF057300, AF057299, AL137479, AL096751, E01614, E13364, AL137521, AL110218, I68732, AF162270, X72889, I29004, E12747, AL137539, AL110280, AF061943, AL110171, AL117648, AR013797, AL050277, AL137283, AL137526, AF118064, I80064,

HDPXO03	8898	923602	1 - 624	15 - 638	AI049283, Y11587, AF118070, U67958, AL110196, Y10936, AF113699, AF106827, I17767, and AL117585.
HDPXN01	8899	915919	1 - 461	15 - 475	H52273, AW368490, and T64894.
HDPXL71	8900	760140	1 - 263	15 - 277	AI651231, AW196757, AA101088, W94251, AI627422, W94274, AA912880, AI093809, AI867562, H06521, and H20526.
HDPXD40	8901	974493	1 - 554	15 - 568	H84068, and AA054207.
HDPXD08	8902	958826	1 - 460	15 - 474	AA651853.
HDPXC56	8903	974490	1 - 550	15 - 564	
HDPXB75	8904	786320	1 - 451	15 - 465	
HDPWX53	8905	727595	1 - 428	15 - 442	T97918, and N77405.
HDPWT92	8906	791223	1 - 650	15 - 664	N76855.
HDPWR03	8907	923608	1 - 483	15 - 497	AA838727, AI816786, AI935020, AI801846, AI928063, AR014046, AR014055, and AR014063.
HDPWN56	8908	733129	1 - 412	15 - 426	AI761763, and R62488.
HDPWK75	8909	793234	1 - 448	15 - 462	AL037151, AW160378, AW163731, R62281, AL037901, T06249, AA211768, AI381026, AA206573, T30286, AW162002, AW390277, T30284, AA075932, AF061940, AF061939, AF061938, AF061941, and AJ132258.
HDPWH75	8910	956201	1 - 479	15 - 493	H79853, W03687, AA465485, AA455724, H83356, W87865, H59791, R16967, T79085, R09412, and R83716.
HDPVC01	8911	915816	1 - 594	15 - 608	AI038628.
HDPUW82	8912	921279	1 - 299	15 - 313	R40075, R51621, AII41535, R46566, R37155, AI492408, AA970417, AA419023, H99298, AI669153, AA907293, AA811138, AA788986, AI825009, AI579905, H17653, R93326, R16181, AW070719, AA130206, AA745834, AI338136, AA365593, AA365604, R88755, AI824699, AI914066, AA448251, Z39123, R34299, AI808827, AF000298, AF039907, AP000044, and AP000112.
HDPUV65	8913	747646	1 - 831	15 - 845	R56626, AA928427, AW005035, AW364625, R68718, AW364618, AI318289, and AI494313.
HDPUV11	8914	966558	1 - 632	15 - 646	H08311, H29675, N99517, R11982, T80994, AA773218, AA569178, AL022345, AL049760, AC005011, AC008124, AC007857, AL080243, AC005295, U91323, AC005086, AC005067, AC002565, AL035458, AC011504, AC005800, AL031685, and AF047825.
HDPUR51	8915	914406	1 - 250	15 - 264	AW069477, AI471968, AW249664, AW245944, AA720616, AI825610, AA931555, AA988285, AI076790, AW009565, AI217146, AI217151, AI934470, AI161265, AW194915, AI675557, AA883665, AA149768, AW027197, AA011403, AA975558, AI219393, AW173189, AA436569, AI150988, AI421887, AA669290, R45925, AI784385, Z21905, T69866, AW138299, AI560662, and AF093415.
HDPUN39	8916	957580	1 - 1806	15 - 1820	AA703945, AI378007, AI887376, AI819938, AW118802, AW117265, AI023239, AA858163, AA836225, AA815054, N32787, AI304385, AI859862, AI810059, AA948491, AI393415,

				AA401439, AA227914, AI123750, AA227626, N48269, N48262, AA493142, AI300250, AI886088, AI263378, AA907185, AW022598, AA838276, AW377610, H96411, AW264818, T62948, N41789, Z36266, N69341, AA070247, AA922124, AW103346, H89278, AI868630, AA975708, H96049, D29240, AA887267, T62800, AW182089, AW183288, AA070204, AI915647, AA648350, and AA092069.
HDPUI44	8917	1 - 707	15 - 721	AA203502, R93355, AI022629, AI627435, T85234, and T97519.
HDPTO65	8918	1 - 554	15 - 568	AA136168.
HDPTL59	8919	1 - 374	15 - 388	T68902, and T68823.
HDPTE43	8920	1 - 608	15 - 622	T57728.
HDPTD58	8921	1 - 550	15 - 564	H71387.
HDPSW93	8922	1 - 486	15 - 500	AW162288, F13749, AI751162, AI696793, AW162489, AW270270, AI431434, AI537538, AI148277, AI859946, AI287651, AA601680, AA179706, AI268812, AA747375, C15897, AI266576, AA644320, AA708678, AA610491, AI500552, AII51261, AL120687, AA111870, AA127353, AW083934, AI305766, AI469796, AW062724, AI453233, AA284184, AI446638, AA604514, AW270258, T47739, AA657835, AI355246, AI291317, AA077776, AA135761, AI279165, AW194267, AI367361, H79308, AA578853, AA176605, AI243789, AW157005, T06828, AW193493, AA302980, AW192065, AA992126, AI445474, AII92631, AA814510, AL135643, AI028510, AL048616, AA226584, AI382614, T40612, AI696962, AW021583, AA297496, AA720732, AW069227, C14121, AA121919, AA484892, AI360514, AI568683, AI291124, AA071393, AI053786, AI358812, AL031670, AC007055, AC005829, AP000248, Z98051, AF196969, AF129756, AP000504, U96629, AL080243, AC004453, AF114156, AC005484, AC004231, AP000556, AC002492, AC009946, Z99716, AC007546, AC002301, AC002544, AC007225, AL078477, AC005332, AL035072, AC006057, AC005668, U73634, AL080242, AC004655, Z93241, AC008372, AC005527, AF111168, AC005624, AL049795, AL096678, AC005940, U91326, AC007688, AC007376, AC004526, AP000505, AC004475, AC007536, AF134726, AC003041, AL121658, AC002400, Z98941, AC002300, AC006064, AL022237, AC004253, AC005377, AJ003147, AL035684, AC005529, AC004970, U47924, AC006312, AC004913, AC002351, AC007444, AP000160, AC018633, AC004874, AC005800, AC005755, AC004448, AF196779, AF047825, AC000026, AL031782, AC005696, Z82243, AL049636, AF053356, AL050308, AC006965, AC003037, AC009509, AC004125, AC005209, AC005821, AC005284, AL049766, AC006511, AC002059, AP000692, AC007298, AC007050, AC000025, Z85986, Z95116, AC004531, Z98744, AL078476, AL022329, AC006449, U62293, AC002470, AC005971, AC016831, Z82206, AC005740, AC004890, AC005237, AC002369, AC004617, AB000882, AL049776, AC003101, AC005288, AC004832, AC006441, AC004400, AC004381, AC012627, AC006468, AL031447, AL031283, AC006111, AC009516, U62317, AL022336, AC002045, Z98304, AC005182, AC004841, AC002996, AC007207, AL022476, AC007367, AC004796, AF104455, AP000359, AP000117, AC006277, AP000087,

HDPSW82	8923	1 - 664	15 - 678	AC003695, AC004955, AC002310, AC005071, AC005180, AC005796, AC004820, AC007934, AC004263, AL096701, AC005274, AP000502, AC005694, AL031295, Z95113, AL049869, AC004887, AL021808, AL022165, AC004983, AP000552, AL022311, AC005519, AL034423, AC005225, AL035683, AC007182, Z82244, AC005488, AP000511, AL031311, Z83844, AC004783, AL133246, AC005562, AC005839, AC007999, AC006130, AC002123, AC005954, AL121655, AC004996, AL132712, AC002312, AC002044, L44140, AC004765, Z84466, AF064861, AL033527, AP000347, AL035079, AC004000, AC005914, AC008928, AP000512, AL035587, AC007066, AC003982, AP000050, AC005082, Z75887, AC006450, AL121603, AC004686, AC007283, AC005722, AL022320, Z97055, AC005057, AC005702, AC005690, AP000557, AL049761, AC005358, AL049589, AL049759, AC004859, AC005632, AC002394, AC007262, Z82198, AC004814, AL121694, AC003030, AL049780, AC005531, AC007684, AC004962, AC007363, AL031407, AL121694, AC005609, AL009181, AC005815, Z97630, AC006946, AC004106, AC006211, AC000353, AP000346, AL049832, U91328, AC004408, AC005015, AC003035, AC004816, AC007537, and Z97196.
HDPSL71	8924	1 - 416	15 - 430	W90767, AI125397, AII125743, AA912111, and W90700.
HDPSK64	8925	1 - 636	15 - 650	AI201084, AI432483, AI469036, AI933748, AA927480, AA921974, AI653945, AA514329, AI952978, AI282809, AW451209, AW025649, and AW242494.
HDPSK53	8926	1 - 462	15 - 476	AA001236, and AL137442.
HDPSJ13	8927	1 - 401	15 - 415	AA078886, AA078885, AL041732, and AB014514.
HDPSB10	8928	1 - 432	15 - 446	H60868.
HDPSA86	8929	1 - 440	15 - 454	AI290094.
HDPRW01	8930	1 - 511	15 - 525	AA495949, AI963348, R37246, AI394099, Z40416, N62063, H06877, AA425013, AI625778, AA883232, AW183998, C00885, AW418807, T63598, and AA488249.
HDPRS89	8931	1 - 464	15 - 478	AI090161, AW369155, AW369104, AW377799, AW369248, and AL078593.
HDPRR24	8932	1 - 398	15 - 412	AW246183, W19148, AW105250, H81510, W23551, AII199034, H30332, R58152, AA293565, H51005, AA017325, R70532, W25288, AA378659, AA431053, N35769, AA303188, AA121246, AA354142, AA668370, AF086837, and AF086838.
HDPRK07	8933	1 - 380	15 - 394	AA765539, AA927315, and AL031133.
HDPRJ04	8934	1 - 597	15 - 611	AL135709, AA417107, and AL096677.
HDPRE41	8935	1 - 505	15 - 519	R76879, and R98903.
HDPRA51	8936	1 - 317	15 - 331	
HDPQV82	8937	1 - 473	15 - 487	H80898, AL037040, Z93023, AC004752, AC004216, AL117339, AL096702, AC004682, AC002073, AL031427, AL022318, and AC005363.
HDPQR07	8938	1 - 618	15 - 632	AA909187.
HDPQI68	8939	1 - 632	15 - 646	AI052000, AW043554, AI589322, AI219714, AI921817, AI940690, AA854748, and AA860747.

HDPQH06	8940	934616	1 - 431	15 - 445	AI652814, and AL122123.
HDPQF03	8941	923120	1 - 810	15 - 824	AI582755, R26237, R86322, AL042965, AL134518, AL119319, AL119335, AL039912, U46351, U46349, AB021861, AF100318, A81671, AB026436, and AR043113.
HDPQC63	8942	744461	1 - 427	15 - 441	H79008.
HDPQA64	8943	872237	1 - 347	15 - 361	AA135852.
HDPPP29	8944	690497	1 - 381	15 - 395	AA430072, AI433439, AA534674, AC004190, AP000516, and AB014087.
HDPPB17	8945	662917	1 - 374	15 - 388	N28339, and Z75746.
HDPOX03	8946	923856	1 - 579	15 - 593	AI056982, and AW062324.
HDPOT78	8947	773487	1 - 905	15 - 919	AI912571, AI911514, AI679788, N24178, AI313135, N78597, AW083974, Z30045, H92801, AI361253, D52266, H92790, AA639165, D61220, AI341193, AA565721, T23468, D60865, AI357528, D59892, AI702867, AI928304, and W07344.
HDPOP03	8948	923843	1 - 579	15 - 593	N49161, and U61375.
HDPOC02	8949	919597	1 - 618	15 - 632	AA122267, AA995018, AI677847, H06642, R16329, AI919166, AI611049, and AW235290.
HDPNJ73	8950	764407	1 - 593	15 - 607	T56742, AA551532, AA169830, AI022336, AC006014, AC005488, AP000356, AC004765, AC004841, AC004770, AC004228, AL031670, AC005697, AL035455, AL031280, AL109865, AL031311, AC009509, AC005837, AL021878, AC004882, AC005484, AC005529, AC004974, and AC002407.
HDPND09	8951	607575	1 - 555	15 - 569	AA587005, F29968, AA525753, AI783911, AW261871, AI954464, AI476460, AA513484, AA584756, U78027, AL121603, AL035422, AC002350, Z95329, AC005046, AC006511, AL008582, AC006468, AL031431, AF117829, AP000111, AP000043, AL035587, AC005800, AC002126, AC004647, Z84480, AF088219, AL049780, AC007308, AC005793, AC009247, AL035415, AC007536, AL049776, AF001549, AL049766, AC020663, AC007225, AC002477, AL031774, AF030876, AC004890, AC005480, AF196779, AC002312, AC007676, AL117339, AC007055, AF001552, AC004525, AC005821, AL035681, AP000359, AC003070, AP000509, AC007388, U91326, AC007151, AC005899, AL022313, AL034423, AL050318, L78810, AC005399, U91323, AF207550, AL024508, Z93241, Z98742, AL121653, AL031681, AL135744, AL009181, AL133245, AC005288, AF196971, AL132712, U52112, AC009516, AC005284, AL024498, AL049760, AL080243, AC005690, and AC005037.
HDPNC22	8952	674539	1 - 881	15 - 895	W90578, W90539, T86410, AI709138, AA890473, T79032, T86498, T85302, T79033, AI784127, T85514, and AB033024.
HDPMV35	8953	706647	1 - 386	15 - 400	W20066.
HDPMR81	8954	493958	1 - 452	15 - 466	AI700071, and AI651878.
HDPMH51	8955	725029	1 - 762	15 - 776	H75594, H84078, H86134, and H84972.
HDPMG46	8956	934144	1 - 346	15 - 360	AI073504, AA931246, AI420858, AA156986, AA806750, AI202536, AI796966, AI440318, AI299156, AI659218, AI147939, AI499692, AI088683, AL048596, AI337583, AI363844, N22539, AI470606, C06326, AW148877, AA253327, AI984272, AI052500, AI984788, H14210, AA284014,

					Accession numbers
					AA281855, AI537677, AI379365, AI923989, AI580927, AL119791, AI433157, AL045500, AI284517, AI364788, AI620284, AI539771, AI567993, AI801325, AI500523, AI434223, AI500706, AI500662, AW151138, AI909672, AI500659, AI445237, AI434256, AI269862, AI491776, AW083804, AL043804, AI043981, AI633493, AI284513, AI888118, AI433037, AI872300, AI582932, AI909696, AL041150, AW088899, AI636719, AI433976, AI815232, AL121328, AI919345, AI889189, AI521560, AI610402, AW151136, AI064830, AI537617, AI494201, AW129106, AI889148, AI284509, AI888661, T06380, AL040243, AI285826, AI866457, AW087445, AI366549, AI436429, AI554821, AL041862, AI805769, AI633306, AI889168, AI589993, AI499920, AL119457, AI866573, AI805638, AI889133, AI499512, AI610362, AC005520, AL122110, and AL133080.
HDPLV29	8957	849526	1 - 567	15 - 581	AA236014, AA236084, AA330056, AF149770, and AC004801.
HDPLU84	8958	782061	1 - 597	15 - 611	R06132, and AC005746.
HDPLT62	8959	973945	1 - 796	15 - 810	AW392670, U46341, AL119497, AL119443, AW384394, AW363220, AL119319, AL119457, AL119324, AL119396, AL119363, AL119496, Z99396, AL119484, AL119341, AL119391, AL119355, U46350, U46347, U46351, AL119444, U46346, AL119335, AL134920, AL134533, AL119439, AL119522, AL134518, AL134902, AL042975, AL134526, AL134538, AL119399, AL043029, AL042965, AL037205, U46345, AL042970, AL119418, AL042614, AL134531, AL043019, AL042984, AL042995, AL043011, AL042450, AL042544, AII42139, AL042542, AL043003, AL042551, AL119464, AL119488, AB026436, AR054110, A81671, AR060234, AR066494, and AR069079.
HDPKI78	8960	773469	1 - 404	15 - 418	W88601.
HDPKA03	8961	923841	1 - 473	15 - 487	AI434789, AW271602, AI813305, N26090, N67808, AI093649, W03392, N36730, AW394104, and AI263776.
HDPJX07	8962	952966	1 - 562	15 - 576	AI085674, AA770353, and AI695338.
HDPJP44	8963	716466	1 - 498	15 - 512	AI770178, AI627506, AI916830, AW236927, AW299782, AI623168, AI347533, AA969417, AW002419, AI763247, AI299571, AI927189, AW136045, AI962542, AA428643, AW207242, AA778307, AI266564, AI334622, AI308144, AI824178, AI675224, AA931817, Z60819, and Z55542.
HDPJK23	8964	488326	1 - 342	15 - 356	W52110, AB020679, and AF067777.
HDPJB19	8965	887886	1 - 279	15 - 293	
HDPJA07	8966	953001	1 - 241	15 - 255	AA021174.
HDPIW95	8967	933240	1 - 814	15 - 828	AI217942, AA885223, AA909021, AA705902, AA306479, H91973, H89928, and AL135175.
HDPIV34	8968	703959	1 - 477	15 - 491	H12352, AI343988, H12300, R71296, and AC007283.
HDPIQ24	8969	771939	1 - 482	15 - 496	H08480, AA580484, AA226996, AA406259, AA402365, and AL022334.
HDPIP06	8970	935198	1 - 570	15 - 584	H70412.
HDPIL73	8971	764344	1 - 328	15 - 342	

HDPIL01	8972	916221	1 - 330	15 - 344
				AA515728, AW328331, AI733856, AW069227, AA714110, AI634187, AI133083, AA630854, AA904211, AI754170, AI708005, AI457313, AI866971, AW069412, AA668587, AL044966, AI216990, AI791720, AI791408, AI439910, AA629731, AI049845, AI431513, AI224583, F24745, AA676592, AI889579, AI421257, AL121287, AA714011, AI627185, AA658918, AI187148, AI887235, AA614163, AA458452, AI066646, AW089625, AW083934, T74524, AA595499, AW265279, AA503298, AA483606, D44672, AA570740, AA513551, AA218684, AA513851, AI049643, AA654038, AI277783, AI049630, AI890297, AW338376, AA601230, AA568204, AA171400, AI912401, AI828555, AI733523, AA297802, AI801563, AA507814, AW188742, AI536834, W02749, AI633386, AW104163, AI905408, AI635609, AP000350, AC005696, AL031664, Z84469, AC004066, AC004985, AL034344, AL109627, AL121653, AC007298, AC006050, Z68322, AP000252, AL109952, AC005031, AP000044, AP000112, AC000075, AC003007, AC004000, AL035079, AP000212, AP000134, AC007277, AF053356, U80017, AP000031, AC005632, AL133448, AC004605, Z98200, Z81364, AL035086, AF109907, AL133246, AL034423, AL121655, AC002314, AC006208, AC004893, AC005005, AL031848, AC005409, AL096701, AL133163, AL109628, AC005232, AC005228, AF134726, AC007934, AC001228, Z97055, L78810, AC005664, AL049650, AP001053, AC006079, AL031589, AC005527, U47924, AC005701, AC002364, AL034429, AC005206, AC006162, AC003042, AC005602, AC004098, AC004098, AC006547, AC006080, AC006449, AC005529, AF191071, AC005722, Z98048, AC005082, AL020997, AP000116, AL050307, AJ003147, AC004033, AL031673, AP000008, AC005667, AC003043, AC005484, AF196972, Z97632, AL008730, AF129756, AP000248, Z83840, AP000065, AC004796, AC006088, AL024507, AC005412, AL080250, AC002476, AC002553, AC005837, AC005500, AC004821, AC005971, AC007226, Z84474, AC006441, AC004805, AP000326, AC004841, AC005933, AP000054, AP000169, AP000122, AC005726, AC005822, AC005071, AC005911, AP000211, AP000133, AC004966, AC010205, AC004884, AC005800, AC003982, AC004552, AC002120, AL008582, AC005618, AL031846, Z98950, AC000115, AC005037, AL049540, AC007227, AC007540, AP000557, AP000049, Z83838, AP000501, AP000503, AC002477, AC009247, AC006084, AP000311, AF207550, AL035457, AL139054, AL035690, AC005331, AC007688, AL035659, AC005695, AC002470, AP000365, AC004895, AC004967, AL022336, U91327, AC002350, Z93017, AD000092, AC005003, AL049776, AP000299, Z93930, AP000103, AC006057, AC002312, AC004962, AL031283, AL031311, AC006487, AC006581, AL035405, AL031276, AC005057, AF111169, AL021453, AC006130, AC007637, AL133355, L78833, AL031778, AC004019, AJ236701, AP000692, AC005089, AC005531, AL096766, Z98051, AC008040, AC004663, AC002551, AL031864, AC002306, AC002306, AC004752, AC002563, AL049734, AC005740, AP000045, AP000113, AC005015, Z98044, AC007057, AL049872, AC003108, AL117338, AC004150, AC005900, AC007160, Z83844, AC006512, AC005859, AC005944, AP000688, AC006360, AJ251973, AL050318, AP000504, AL121769, AL117258, AL096791,

HDPIF78	8973	1 - 347	15 - 361	AC008115, AF045555, AL034402, AF001548, Z95113, AL049856, AC007899, AC007376, AL034379, AC004851, AL035458, AL049694, AC005231, AC006511, Z82206, and AF001549.
HDPIF66	8974	1 - 431	15 - 445	R73297, AI287533, AI279683, U75370, and AC004449.
HDPIF54	8975	1 - 556	15 - 570	H10868, and AL031681.
HDPID88	8976	1 - 409	15 - 423	—
HDPID53	8977	1 - 416	15 - 430	AA513893, AW410354, AW148507, AW191886, AA679532, AA099222, AA320279, AI168661, AA954641, AA610219, AI627917, AW027660, AA476495, AP000217, AC002422, AP000339, AL133321, AL078603, AL035090, AC005593, AL035691, AL024498, AC008040, AC007688, AC005587, AC005247, AC005035, AL133445, Z49918, AC003991, AC005599, AC007676, AL049767, AL031737, AP000355, AC007376, AC005235, AC007899, AC002449, AC006947, AC006432, U95742, AL033381, AC007216, AP000501, AC007226, AL035413, AL022067, AP000080, AC005094, AC007685, AC004910, AL022727, AC005228, AC005519, AL008627, AF069291, AL117354, AC007695, AL109984, AC006529, AL110502, AC006238, Z85986, AC007270, AC004582, AL021877, AL117356, AC005081, AC006271, AP000038, Z82217, AC000052, AC005015, AC005156, AC004019, AC004605, AF111169, AC007253, AC004638, Z92844, AC002536, AL008732, AL023803, AC005523, AL050309, AL078587, AC004967, AC004059, AL031230, AL031120, AL008631, AL049779, AC000134, AL079342, AC002542, AC005022, AC006441, AL022320, AC004999, AF111168, AC002511, AL109963, AC003101, AL049757, and AC007182.
HDPIA21	8978	1 - 459	15 - 473	AC002400, AF134726, AP000503, AP000049, AP000311, AC009784, AC005856, AC004905, and AC007546.
HDPHF37	8979	1 - 313	15 - 327	
HDPHA89	8980	1 - 495	15 - 509	AA056286, AA054104, R88858, H83463, H86714, H84085, AA011139, AW160888, AI570404, F05284, R69197, and AA015680.
HDPHA40	8981	1 - 376	15 - 390	AA010368.
HDPHA37	8982	1 - 494	15 - 508	AB002378.
HDPHA34	8983	1 - 500	15 - 514	H63370, and AC005495.
HDPGX15	8984	1 - 448	15 - 462	AC008282.
HDPGX10	8985	1 - 714	15 - 728	AA281456.
HDPGX03	8986	1 - 396	15 - 410	
HDPGT96	8987	1 - 453	15 - 467	AL021938.
HDPGS93	8988	1 - 454	15 - 468	AF107885.
HDPGS45	8989	1 - 355	15 - 369	T85104, T80174, N73918, W02957, AA910341, and AC005562.
HDPGS43	8990	1 - 453	15 - 467	AI038997, AI458126, AI457736, N57242, AI087313, AA648507, N41553, AI655523, AI827737, and AC000119.

HDPGS16	8991	1 - 447	15 - 461	AA774560, AA530983, N42742, AA825514, AJ245709, AF124141, AF135794, AL117525, AF124142, and D49836.
HDPGS01	8992	1 - 454	15 - 468	
HDPGR44	8993	1 - 213	15 - 227	
HDPGN15	8994	1 - 452	15 - 466	AA502207, AI050076, AA877992, R82650, AI368732, AL120141, W63553, AA211734, AW023111, AA938390, AA630122, AA493789, AA482844, AI160786, AA569059, AA737235, W01323, AA482776, AL024508, AC000353, AC005790, AJ003147, AC004815, AL034549, AL137705, AC007096, AC000159, AJ012008, AP000504, AF129756, AC006208, AF196969, AC004874, AL022314, AL030996, AL035413, AF001548, AC007541, AL109753, AC004227, AC005531, AC005529, M55987, AC002559, AL035405, Z81010, AP000362, X55448, AC007748, AL032822, AC002375, AC000029, AC007227, L44140, AC006538, AC010186, Z98885, AC002094, AC006236, AL133312, AC005535, AC018767, Z93017, AC003071, AL096701, AC007546, AF073485, AP000256, Z68324, AP000098, AL031775, AL021393, U80017, AL132987, AL035089, AC010183, Z97353, AC006430, AF088219, AC005088, AC005156, AC006211, AC005484, AC005189, AL034417, and AC006344.
HDPGN13	8995	1 - 442	15 - 456	AA586451, AA515742, AI298079, F34468, AA657910, AA640252, AA831997, AI499954, AI800345, AA338635, H16875, F26713, AA161305, AA506952, AW029269, T08205, AA229159, AW242279, AI627868, AW071109, AL134167, AL041019, AL041018, AA550989, H73306, AW392414, AL045476, AW408596, AA948670, AW341955, T41134, AA658890, F37201, AI471455, AW439703, AI687343, AA111870, F34605, AI680547, AW162227, AA728925, AW377926, AL135363, AA657392, AI054326, AA056206, AA836097, AA678950, AA325466, AW407632, U51704, AA584655, AA315052, AI801824, AI147511, AA311432, AA429481, AA554257, AL035685, AC007204, AC005206, AC004686, AC005667, AC007685, AC005366, AL109842, AC004961, AC006578, AB020859, AC005866, AB001523, AC007021, AC002314, AL034423, AC006084, Z49236, AI251973, AF001549, AC002115, AB026899, AC005899, AC003691, AC008122, AC000402, AC002322, U62631, AC004491, AC004234, AL109984, AC005183, Z98752, AC006262, AL021393, AC006120, AL096818, AF030453, AL008707, AC004820, AC005091, AP000500, AC004963, AP000501, AL031585, AL139054, AC002470, U53930, AC002544, U53583, AL050321, AC004743, Z93023, AL009181, AF053356, AC004560, Z98256, AC004692, AC002543, AC007934, AL031686, AC005189, AC006540, AL078602, AC006071, AL096701, AC007199, Z93930, AP000512, Z69921, S79836, U11297, U08438, AP000065, AC007040, AC006001, U97187, AL049653, AC004638, AL031904, AF111170, AC007358, AC007066, AC004851, AC011504, AC005666, AC008015, AC005519, AL137716, AB014079, AC007381, AC006139, AP000514, AL049814, AC007537, AC006270, AL031284, AC003037, AL022163, AC006312, AC006312, AC005695, AC005796, AC005089, AC007193, Z68323, AC004876, AF196971, AC004466, AL035652, AJ246003, AC003982, L31848, AC004752, AL096767, AC004741, AC006367, AC011456, AC007057, AL031315, AC005102, AL022722,

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HDPGN11	8996	966923	1 - 388	15 - 402	AA767082, AI554821, AI064787, AI815232, AA814782, AI312428, AI580927, AL036802, AA504514, AW071380, AI499512, AI801544, AW131282, AI520862, AW089689, AI538878, AI909661, AI634737, AA715307, AA613907, AL036656, AL045421, AW080565, AI499191, AI923989, AI440263, AL038779, AI582932, AA641818, AA761557, AI446248, AI923509, AI886415, AI889189, AI281773, AW151136, AW243741, AI475394, AI635492, AI866465, AI597918, AI539771, AL121270, AI364788, AI537677, AI064830, AI500659, AA809974, AI801325, AI500523, AI284517, AI500706, AI491776, AI445237, AW151138, AI521560, AI500662, AI284509, AI889168, AI866573, AI633493, AI434256, AI624543, AI888661, AI284513, AI888118, AI371251, AI436429, AI859991, AI872423, AI440252, AI909672, AW087445, AL036901, AL045774, AI121328, AI678989, AI371228, T79374, AL047422, AI269862, AI433037, AL039730, AI355849, AW117882, AI640873, AI343030, AI340519, AW128983, AI494201, AI110402, AI866469, AI345608, AW081133, AW172723, AI860003, AI805769, AI906328, AI432656, AW162194, AI889147, AI345587, AI866786, AI610557, AI633125, AW059828, AI887499, AL045500, AW083804, AI282655, AI340511, AL119791, AC007392, AL022315, Z49258, Z82206, AL033521, AC005291, AL022723, AC006112, Z99495, AC009233, AC004383, AL021391, AL035407, AC018767, AP000355, AC005156, AC007298, AP000020, AL031984, AC005048, AC004837, AC005520, AL022147, AL122021, AC002416, AL034417, and AC005224.
HDPGI49	8997	722903	1 - 296	15 - 310	N59681.
HDPGI75	8998	766618	1 - 464	15 - 478	AA644090, AA081825, Z81365, AL035683, and AL020995.
HDPGI74	8999	765524	1 - 453	15 - 467	AL033397, AL031685, AL050318, AC005072, Z99127, U52112, AC006511, AC002430, AC004491, AC007384, AL034400, AL109628, L44140, AC008372, AC011362, AC004834, AC003101, AC002565, AL080243, AC006238, AF006752, AC006453, AC005740, AC005778, AC004825, U91323, AC005015, AC005529, AC005089, AL020997, AC004953, AP000697, AC003003, Z95115, AC007386, AC005562, AL049758, AC005756, AC005206, AC004887, AC005952, and AC005667.

HDPGH73	9000	1 - 104	15 - 118	AA111917.
HDPGG01	9001	1 - 304	15 - 318	AI032747, AI769719, T79745, and AC004751.
HDPGD28	9002	1 - 433	15 - 447	
HDPFZ70	9003	1 - 761	15 - 775	AA525394, AA484596, AA484372, AL042753, AI475660, AA464969, AW024544, AL045360, AA603359, AA808153, AI500553, AL138455, AL134524, AA974503, AL043095, AW117882, AL040319, AA177033, W95924, AI440426, AL046110, AA947997, AI696846, AI433157, AL042891, AA760655, AI863014, AC005081, AC007055, AC004491, AF196779, AC005015, AC006530, AC006285, AC006064, AL121653, AC005971, AC006480, AL109627, AF205588, AC006071, AL022316, AC006211, U47924, AP000692, AC005696, AL096791, AC004686, AL008719, Z83844, AC005225, U91326, AC005291, AC006057, AC007227, AC005231, AC002464, AF111168, AL035659, AC016025, AC002395, AC007216, AC020663, AC006014, AL022238, Z82206, AC005519, AC009516, AL121603, AP000557, AL022723, AL096701, AC007664, AC004797, AC005399, AC007686, AC002544, AP000501, AL049569, AL009181, AC016831, AC009247, AC006312, AL022721, AC005800, AC005488, AL031311, AL049757, AL035587, AC005082, AC004841, AC004883, AL080243, AC005736, AC016830, AC002073, AC008372, AF001548, AL049694, AC005529, AL050318, AC006241, AD000092, AC004966, Z93930, AL049776, AL050348, AC004213, AC005618, AL031680, AC007051, Z85986, AC006039, Z77249, AF091512, Z99716, AL136295, AC005089, AC003982, AC002477, Z98051, AC002430, AL035086, AP001053, AC006441, AL096776, AL022336, AF109907, AC004257, AP000088, AF001549, AC002558, AC004878, AC004605, AC004882, AC002347, Z97056, AC007384, AC005962, AC004263, AC002039, AF093117, AC005071, AC004150, AC007277, AC005102, U95090, AC004813, U95739, AL135744, AC005072, AC004987, AF042090, AL132712, AP000513, AC002425, AC005755, AL034548, AL021707, AL078463, AC004832, AB004907, AL049872, AL022165, AC005874, AF134471, AC005726, AL034555, AC004383, AC006277, AC007676, Z84466, AC005180, AL049759, AL022476, AC002350, AL008582, AC004814, AL031229, AC007458, AC005881, AC007458, AF047825, AC006953, AC005778, AF129756, AC004921, AC006449, AC006077, AF053356, AC002316, AF019413, U95742, AC008040, and AL133445.
HDPFW02	9004	1 - 558	15 - 572	T39977, and AL050337.
HDPFS71	9005	1 - 467	15 - 481	W72416, AA955016, and W76266.
HDPFS59	9006	1 - 462	15 - 476	
HDPFP96	9007	1 - 451	15 - 465	
HDPFP71	9008	1 - 797	15 - 811	
HDPFP14	9009	1 - 478	15 - 492	
HDPFN23	9010	1 - 442	15 - 456	
HDPFM28	9011	1 - 469	15 - 483	

HDPFL52	9012	486739	1 - 469	15 - 483	AC007281.
HDPFJ58	9013	783957	1 - 352	15 - 366	W05340.
HDPFD10	9014	964521	1 - 705	15 - 719	AA424163, and AI350948.
HDPFB03	9015	936331	1 - 678	15 - 692	AI694127, AI299320, H70360, T98966, AA356015, AL045292, AA236204, AA131671, AW118104, W20295, H75919, N31893, R98291, AL117517, and AB023221.
HDPDH08	9016	959303	1 - 344	15 - 358	AA082104, and AA134717.
HDPDD12	9017	970592	1 - 964	15 - 978	AI939431, AW020534, AI347310, AI371784, AI423466, AW150254, AW015338, AI361447, AI419452, AI088725, AI371086, AI418456, AI361506, AI419176, AI363726, AW176344, AL120300, AI424173, AW016674, AI288889, AF097450, AF146793, AF011568, AB002332, and AF000998.
HDPDC90	9018	590161	1 - 641	15 - 655	T52186, and Z97630.
HDPCY47	9019	775412	1 - 402	15 - 416	W38488, N27984, AA649285, AA661773, AA298770, AA306867, H81350, AA100476, AA310276, AA417302, AA314322, AI815642, AA045597, D82429, R89903, AA130829, R83064, AA382073, AA297193, AA100050, AA344066, AA311797, T85780, AA334159, AA314221, N51146, AL122042, and AC007842.
HDPCP89	9020	786075	1 - 384	15 - 398	AA494163, T52475, and AC004148.
HDPCP64	9021	746527	1 - 320	15 - 334	AL022329, and AL022332.
HDPCP48	9022	721620	1 - 406	15 - 420	
HDPCP46	9023	719014	1 - 447	15 - 461	
HDPCP43	9024	715227	1 - 432	15 - 446	AI751151, AA418897, AA195596, AA491307, T54037, AA339713, AI751325, W79862, N41703, AA099015, H71376, AA307241, AA371799, AA485793, AA300777, AA299440, AA485195, N28794, AA313589, R85229, AA491479, H52010, AA471326, AA227051, H13340, AA218541, AA216580, R72732, AA330733, AA227045, N36603, AA219518, W52126, AI336290, AA213719, H30288, R94642, AF112482, J04794, AF036680, and AF112484.
HDPCP16	9025	416032	1 - 408	15 - 422	
HDPCO12	9026	852847	1 - 446	15 - 460	N23913, AI674840, AL079734, AI206841, AA502991, AA452887, AL119691, AA581247, AW023111, AL038842, AA644090, AI189682, AA832444, AI799569, AI889426, AA525764, AA765925, AII92440, AA503298, AI306149, AI627917, R34070, AA427470, H68343, AI962030, AA582554, AI066711, AA610642, AA837035, AA063008, AA468196, AI610468, AI421257, AA525331, AI610737, AA584862, AI791659, AW327624, AI267884, AA121777, AA832175, AA491767, AW245860, AI565126, AA405726, AC005632, AL031589, AL078472, AC006505, AP000967, AF196779, AF200465, AC000353, AC006952, AP000704, AC006312, AL049829, AC004859, AC007707, AC002091, AP000362, AB023048, AC004526, AC007666, AC002300, AC007283, AC003101, AC004491, AC005049, AC007774, AL031729, Z83822, AL139054, Z85996, AC005058, AL117355, AC002996, AL049569, AC002352, AC007011, AF030453, Z84480, AL133163, AP000510, AC002544, AC005412, Z83308, AC008033, AC005220,

HDPCN88	9027	1 - 439	15 - 453	AL049696, AC005531, AC006121, AC005899, AC004106, AC005514, AC005377, AL031283, AP000008, AL132642, AC006552, AC007314, AL121915, AC004033, AL132712, AC002476, AP000501, AC004253, AC006430, AC005081, AC007055, AC002316, AL049631, AC005920, AL049780, AL049697, Z84469, AC004883, Z97630, AC010582, AC005088, AC003982, AL008583, AP000355, AC004659, AC004815, AC003098, AL022313, AL133448, AC002470, AC004805, AL080278, AL096701, AP000023, AB016897, AC004755, AL121825, Z83844, AC000029, AL133245, AC006165, AL121658, AL023553, AC005695, AL049759, AL049760, AC009516, AL049776, AC005031, AJ239322, AP000512, AC005158, AL035413, AC004814, AL021579, AJ246003, AL049869, AC006487, Z98946, AC004813, AF015416, AF047825, AF064864, AC005924, AC006241, U85195, AC000052, U80017, AB023051, AC005288, AC006001, AC007040, AC002045, AL031295, AC010206, AP001053, AC004966, AL021578, AC007225, AC007425, AC003085, AC005694, AL034423, AL035703, AE000658, AL008635, AP000692, AL109628, AL031228, Z98751, AC005484, AF031075, U91321, AC007384, AL022316, AC006530, AC005902, Z70288, AL021392, AC004216, AC006285, AC007193, AL034420, AL121603, AC002044, AC007182, AC004181, AL035460, U82668, AL050318, AC006211, AP000509, AC006581, AP000557, AC002425, AC004232, AC005089, AC003950, AP000215, AC006449, Z97196, AC005369, AP000043, AP000111, AF030876, AC005730, Z95114, AC007676, AC003683, AC005993, AF001548, AL135744, AC005969, AP000359, AC006441, AC005620, AC007938, U91323, AC010205, AC005736, AC002120, U91318, AF002223, AC007129, AC005988, AL008718, AC005225, AC010200, AC000159, AC005527, AC009363, AB000876, AC007664, AL034379, AC007687, AC002369, AC005409, AC005725, AP000246, AL031427, AC005082, AC005261, AP000302, AC004686, AC006251, AC002115, U62317, and AC005180.
HDPCN73	9028	1 - 435	15 - 449	
HDPCN33	9029	1 - 339	15 - 353	D25538, Z49806, and U12919.
HDPCM66	9030	1 - 459	15 - 473	
HDPCM62	9031	1 - 451	15 - 465	AI525779, AL048467, Z98468, AII32950, AL037961, AA467916, AI540982, AA523369, C17914, AA147138, C17592, AA503155, AA177092, AA180879, AA641056, AA610797, AW270568, C18849, AA182403, AA469384, AA115399, AA468916, AA533146, AA147875, AA180941, AII33326, AI525589, AA248428, AA469455, AI557370, AI525553, AI557341, C17520, AA828615, AA181413, C17634, C16951, AI880907, AA178872, AA548209, AI720611, AL038782, AI832713, AA579252, AA468090, AA134092, AA467874, AI720582, AA524630, AA195788, AI564503, C17424, AI888059, AA192670, AA652263, AA194546, AA523654, AA131426, AI557313, AI535678, AI749086, AI749469, AA187125, AA229365, AA737156, AA501707, AI557102, AA214681, AA879244, AA180873, AA112861, AA194379, AA194687, AA569535, AA182903, AA182943, AA533654, AA522594, AI525571, AA991485, AI749735,

HDPCI45	9032	974424	1 - 369	15 - 383	AI557088, AA650350, AA478982, AA196841, AA579030, AI601133, AA424930, AA194273, AI749789, AA083296, AI079227, AA194499, AA229353, AA192574, AI401656, AW058230, AA192817, AA213905, AA180994, AL047719, AA192816, AA157661, AI888702, AA178896, AA579390, AI525178, AL048223, AA640922, AI525569, AA186485, AA554723, AA206277, AA132126, AI683500, AI721182, AA643083, AI859687, AA630148, AA575856, AA541754, AA186996, AI039890, AI336230, AI679256, AI860015, AI625480, AW149803, AI749577, AI880643, AI567683, AI720486, AI832827, AA226358, AI557278, AI565146, AI570248, AA130611, AA910188, AI799675, AA194505, AI819457, AA477388, AA745378, AA165490, AI859381, AI207550, AI718924, AI064923, AA664911, AI475978, AI742323, AA091934, AA738023, AI654020, AA143576, AI961292, AA156168, AA248319, AW152109, AI525664, AA079522, AI679832, AI683406, AI653843, AA176516, AI749856, AI805532, AA501537, AA483433, AI833274, C17077, AI880419, AI969468, AA469166, AI539651, AI568209, AI022093, AA180137, AI635597, AA879300, AA148089, AA583943, AI281616, AA147081, AI735219, AA193156, AI028076, AI749870, AI949078, AI720480, AA091771, AA194500, AA197055, AA095954, AA804880, AI557381, AI984574, AI718780, AI859301, AI679202, AA640278, AA771997, AI636313, AI801302, AI628841, AA659528, AI620672, AI833271, AA079046, AA213947, AA904198, AA176518, AI025935, AA578703, AA575882, AA578171, AI766358, AI525644, AA532589, AA662051, AA642606, AI971524, AA774227, AA642865, AI880261, AA130827, AA179137, AI557043, AA133044, AA196992, AA653769, AA578573, AA829550, AA188331, AA650010, AA136007, AW131083, AI525661, AW081141, AA490051, AI795888, AI707528, AA196842, AA192743, AI833260, AW439447, AI811181, C17407, AA578629, M25171, I27366, X15759, U12691, U12694, U12690, U12693, X62996, D38112, V00662, I01415, X93334, AF134583, AF035429, U12702, U12695, U12706, U12704, X97712, D38116, U12697, U12705, AF004339, D38113, X93335, X55654, U12703, U12704, X97712, D38115, X97707, J02825, Z63194, AB019563, Z59071, Z57801, Z59274, Z55198, Z58044, Z59273, Z54385, Z64469, Z59073, Z56866, Z58022, Z54740, Z61931, Z61912, Z56698, Z64102, Z57991, Z55821, Z56806, Z57800, Z61907, Z54739, Z59906, Z55197, Z58021, and Z56697.
HDPCH85	9033	973314	1 - 508	15 - 522	
HDPCG33	9034	495711	1 - 509	15 - 523	AA723077.
HDPCB67	9035	878776	1 - 286	15 - 300	H68565, and AF064553.
HDPBQ75	9036	466645	1 - 416	15 - 430	R51480.
HDPBP64	9037	746537	1 - 368	15 - 382	
HDPBI31	9038	852885	1 - 628	15 - 642	AA477369, AI914713, AA878492, AA678616, AA659832, AA714073, AW078821, AW390284, AI347665, T08386, AA644223, AA581498, AI472736, AA662989, AW440568, AA678932, N66927, AW081610, N67313, AI889995, AA126814, AA452325, W96277, AW005974, F02342, AA020873, AI619994, AI697425, T26476, F26072, AA657910, C14330, AI718462, AI683116,

HDPBF15	9039	852880	1 - 392	15 - 406	AI130709, AI536858, H01243, AI537995, AA609826, AA804729, N75708, AW190277, AW148775, AA599080, AI814682, AI291439, AW392414, AW272640, AI869786, AA618247, AW054936, AA572974, AI362442, AF001549, AC009225, AL023775, AL031291, AC007488, AC006501, AL022320, AC005969, AC007201, AC004104, Z98200, AC006271, AC003982, AC005841, AL078639, AL049871, AC004884, AC004598, AL035086, AL096712, AL022316, AC004662, AC007938, AC005066, AP000243, AC007688, AP000203, U47924, AC005231, AC004895, AF196969, AC002381, AF024533, AC005971, AL022331, AC006064, AL021155, AL031659, AL034420, AP000228, AC005899, AL133163, AC002316, AC005088, Z84480, AP000140, AC004257, L44140, AC005881, AL022323, M87889, AC005261, AL020996, AC004882, AC006080, AP000088, Z75407, AC007227, AL035422, AF038458, AP001052, AL022326, AL034549, AF003626, AC004804, AL050317, AC002543, AC004263, AC007308, AL022240, AC007193, AL096791, AC005722, AC007055, AP000493, Z93930, AC000092, AL132712, AC003663, AC002365, AC006050, D28126, AL050332, AB003151, AC005781, AL022165, AC006547, AC004963, AP000558, AL031003, AP000403, AC003007, AC004973, AL021939, AP000036, AC005529, AL049874, AC007684, AL035588, Z83844, AL021917, AC005600, AC004491, AL031295, AC006581, AC005870, U52111, AC004605, AC004253, AC004132, AC005102, AC005620, AL008722, AC008989, AL050307, AC002352, AC005632, Z85995, Z46940, AL008730, AC005229, AC002544, AL035413, AL109853, U15422, AL031584, AL109952, AC005914, AP000557, Z82176, AP000272, U29895, AL080242, AC005663, AL034548, AC004525, AC000353, AC003026, AC009247, AC003108, AC004099, AL033527, AL049872, U78027, AP000501, AC003026, AP000696, AP000130, AP000208, AF196970, AC009516, AC002991, AL021707, AC005837, AP000696, AP000130, AP000208, AF196970, AC009516, AC002991, AL109628, AC005081, AL121603, AL022311, AF047825, AC009399, AC004686, AD000092, AC002303, AC005619, AC005829, Z98304, AC002094, AC002351, AP000695, AC000039, AC003009, AP000689, AL031431, AL022313, and AC005886.
HDPBE85	9040	783544	1 - 661	15 - 675	AA284570.
HDPAX21	9041	670893	1 - 487	15 - 501	AA682505, R11150, T79291, T79204, R11151, and AI140542.
HDPAV46	9042	719027	1 - 403	15 - 417	T63648.
HDPAP04	9043	615193	1 - 384	15 - 398	AA100330, and AF037222.
HDPAO68	9044	972332	1 - 1554	15 - 1568	T87401, AW021289, and AL121748. Z99396, AW392670, AL119319, AL119457, AL119483, AL119324, AL119443, AL119484, AL119391, U46350, U46347, U46351, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, U46341, AL119522, AL119396, AL119439, AL119444, AL119341, AL037205, AL119401, AL134531, AL134531, AL119399, U46346, AL119418, AL119335, AL134538, AL042542, AL134518, AL119399, AL119496, AL134920, AL134533, AL042965, U46345, AL043011, AL043029, AL042544, AL042614, AL043019, AL043019, AL042450, AL042984, AL043003, AL042551, AL119464, AB026436, I25027, AR054109, I44515, I26928, I26930,

HDPAO64	9045	1 - 445	15 - 459	I26927, I25041, I44516, A81671, AR066494, AR054110, AR060234, I09121, AR035224, I85513, AR009152, AR009151, AR027099, AR069079, AR019098, I89986, AR020199, AR020200, AR001287, AR020198, AR020197, AR028791, AR028793, I05430, I05393, A10617, AR028792, A01324, A01323, AR019094, AR034783, I63120, A92666, AR067733, A92668, I49890, AR029418, A92667, AR067734, AR067731, AR064322, AR064323, AR064320, AR064321, A32110, AR067732, AR029417, A83642, A94048, A94061, A83643, A94046, A94054, A49045, A70359, A92665, AR038307, and AR038321.
HDPAN94	9046	1 - 450	15 - 464	T65324, AA575982, F09955, H88491, and AA947153.
HDPAK09	9047	1 - 437	15 - 451	AA917335, Z20320, AL080176, AF144235, and A74743.
HDPAJ64	9048	1 - 428	15 - 442	AW168420, AI254913, F12561, AI382825, AA846952, F08248, AA572999, AI751216, AA302973, AA613627, AA578621, AI818737, H07953, AI536552, N22037, AA760808, T74524, H67863, AC057755, AI049694, AC004662, AF134726, AC004605, AL021393, AC002994, Z98051, AC005261, AL034417, AC004019, AC005484, AL049779, U91321, AC002074, AC007216, AC007637, AC007242, AL031282, AC006001, AC005411, AC005900, AF053356, AC004805, AC004526, AC006344, AF111168, AL022329, Z82206, AC005899, AP000555, AC004881, AC002302, AC005668, AC005086, AC004985, AC011331, AL049830, U95742, AC004996, AL031255, AL035071, AC004975, AL049697, AL049758, AC002312, AF117829, U85195, AC005534, AL035423, AL035683, AL122023, AC007676, AP000502, AC005726, AE000658, AL080243, AC005071, AF001549, AF001548, AC006120, AC004067, AF196779, AC002350, AC002429, AC006379, AL109628, AC007225, AL035681, AJ010770, AC005529, AF088219, Z85987, AC006040, AC003010, Z83840, AF030453, AC005391, AL109754, AC005088, AC007376, AJ011930, AC002476, AC004099, AC005049, AL049766, AC005602, AC005756, AC003080, AC003060, AC006946, AC006026, AC010205, AC005829, AC007690, AC004757, AC006043, AL109952, AC000052, AC002316, AC004695, AF031078, AC005027, AL139054, AC007731, AC006965, AC005500, AF030876, AC005015, Z99716, AC007878, AL035403, U07562, AC006480, AC004890, AL023575, AC004000, AL031659, AC005324, AC006538, AC007308, AC005046, AL117258, U91318, AC005320, AL078477, AC016025, AC005512, U89337, AC007666, AC004797, Z97056, AC006966, AL022722, AC006039, AP000045, AL035398, Z94056, Z85996, AC006023, AB001523, AC004821, AC005962, and Z82198.
HDPAH17	9049	1 - 573	15 - 587	AA680145, W60281, T86901, AW058463, W60373, T86900, Z54200, and AF106862.
HDPAF40	9050	1 - 555	15 - 569	T92908, T92904, AA504485, T92996, and T93000.
HDPAC90	9051	1 - 806	15 - 820	AA020898, H48269, AA599610, AI809570, W73575, AI693860, AI393815, AW339773, T51762, T51608, and AA284050.
HDPAC78	9052	1 - 226	15 - 240	H82420, H82680, and AL078581.
HDPAB34	9053	1 - 442	15 - 456	T94880.

HDPAA80	9054	775417	1 - 501	15 - 515	T84574, and AI192443.
HDPAA38	9055	546575	1 - 690	15 - 704	AL037050, AW081941, AW406447, AA342901, AW088058, AA916039, AW074398, T71998, AI299050, AI281903, AI689097, AA610491, AI054246, AI053816, N71724, F19258, AA095511, AF177861, AA336362, AA377385, AW272758, AA501722, AA340003, AA308806, AA318652, AI357551, AI565245, AI886176, AW236342, N22059, AI364809, AA491814, AI859251, AA515435, AW301818, AI919265, AL138265, AI287451, AA177061, F29989, AW440976, AI053429, AI053672, AI274692, AI696962, AL040547, AI307426, AI284640, AA932099, AI334443, T06556, AW340844, AW361583, AI358229, F36273, AA743956, AA553465, AI963095, AW406755, AI200051, AI291124, AI365988, AI654588, AI291268, AW071063, AI537030, AW339687, AI635272, AI133164, AA321311, AI216799, AI016000, AL041368, AL138455, AA252763, AA652057, AA649642, AI264743, AI610159, AI469172, F24284, AI690686, AI623132, AA745410, AL048616, AA654627, AA601892, AI537955, AA454925, R13151, AI446601, AI801591, AA501784, F32705, AP000356, AC006004, AL121603, AC006064, AC005215, AC004814, AC005940, AL034420, AC004491, Z73359, AP000245, AL049636, AC006480, AF053356, AP000556, AC004894, AC002350, AP000552, AC005324, AL020993, AL022324, AC002072, AC004895, AF045555, AF111168, AL121653, AC005619, AC002316, AC003043, AC006285, AC004477, AC005800, U07562, AC005412, AC005081, AL121655, AL121658, AC006001, AC005046, AC005099, AC007216, AL096701, Z84484, AF111169, Z97054, AC007225, AC005920, AC007899, AC005015, AF196779, AC007878, AL035683, AC004966, AL033521, AL035460, U95742, AC004962, AC007242, AC006388, AC000025, AC000083, AP000210, AP000132, AC007686, AC016025, AC006312, AC008041, AL096791, AC007276, AC007371, Z86061, AL132718, AF129756, AL031584, AC006153, AC004812, AL021453, AL033392, AC007707, AC005157, AC005037, AP000030, AP000558, AL023284, AL049779, AL021918, AC007666, Z98742, U91323, AC007011, AP000248, AF001549, AC005790, AL109967, AC005284, AC004890, AC006251, AC005066, AP000251, AP000557, AC004815, AC008134, AC005696, AL024507, AC003982, AC006071, AC004841, AP000474, AC004964, AC005280, AC006211, AC008101, AC009330, AC007277, AC000078, AF196969, AL079340, AL049569, AC000052, AL049830, AC004745, AC007450, AL024498, AC005180, AL133243, AC002070, AC003119, AC004150, AL035587, AL035090, AL035249, AC003104, AL031228, AC005666, U91326, AC005250, AL031005, Z98743, AC007537, Z98048, AJ251973, AC002432, AC006195, AC007262, AC005694, AC004148, AC009516, AC004983, AC000159, AC005562, AC004776, Z82901, AL031848, AC007387, AL034451, AJ010770, AC007688, AB026898, Z84466, AC006057, U89337, X64467, AC002312, AC004472, AC005755, AC004750, AL031777, U47924, AL109802, AP000311, AC002525, Z82182, Z85987, AC004770, AP000692, AL035450, AF042090, AL021391, Z93017, AL031230, AL132777, AC002115, AC004650, Z83844, AL008582, AC005911, AL022323, AC004813,

				AC007324, AJ003147, AF017104, Z98946, AC007919, AC005821, AJ246003, AL117351, AC005041, AC003041, AC007358, AL133355, AL035411, AC005919, AC008115, AL031255, AC005913, AF134726, AC006012, AC008079, AC005358, AC004694, AC009044, AC003102, AL109628, AL031053, U85195, AF109907, AL049766, AC003986, Z82250, AC007051, AL049780, AJ006996, AC004907, AC002096, AC006088, AC006077, AL050341, AC005399, AC005331, AC005997, AL022165, AL078463, AC006323, AP000045, AC005242, Z99716, AC005295, AP000555, and AC004996.
HDLBE11	9056	1 - 365	15 - 379	AA419383, AA411025, T03583, AA233509, AA969363, AA186898, AA485941, F12561, T65562, T59612, AW020599, AA989107, AA831152, F13808, AA745507, AW020088, AW022655, R61498, T78512, AA554153, AA720755, C15363, AF165926, AC005324, AL035086, AF111168, AC003098, Z99716, U85195, AE000658, AC005488, AL049758, AC004491, AL136295, AL030997, AC005736, AC003035, U95742, AC006059, Z99289, AL133245, AC003041, AC007151, AC007216, AF109907, AC000353, AC006014, AC000367, AC005914, AC005776, AC006965, AC007057, Z98742, AL031121, AL008715, AL110292, AL132641, AF088219, AF107258, D83253, AP000240, AC007226, AC007193, U91326, AC007022, AL122020, AL035089, AL024507, AC005368, AC007421, AC004765, AC002430, AC002367, AC007384, AL121603, AC006538, AP000010, AC005971, Z99572, U07562, AL035460, AL031311, AC005412, AL049829, AC005666, Z97054, AL031120, AL049872, Z97183, AC005702, AL078638, AC005520, AP000495, AL049856, AC004816, AL022476, AC006480, AF053356, AC005730, AC004675, Z98200, AP000152, AC006241, AF205588, AL049795, AC005089, AL050318, AP001038, AL031666, AL035423, AC005355, AC003070, AC002400, AC005184, AL031584, AC005726, AC006211, AC006312, AP000555, AC007707, AL022163, AC005037, AL049646, AC004821, AC009516, AC007277, Z73359, AC005884, U47924, AC004890, AP000201, AC005620, AF186189, AC002470, U07563, AC007225, AL008582, Z83822, AC005081, AL022237, AC004382, AC004800, AC005826, AC006379, Z92540, AC006537, AJ011930, AL050332, AL031431, AL050308, AC005231, AC005874, AF134471, AP000097, U91322, AP000704, AC004796, AC007376, AB023048, AC002301, AC006441, AC006064, AC006006, AC008085, AL022165, AC007917, AL135744, AL132987, AC002331, AP000155, AL022326, AL132712, D87009, AC000052, AC004230, and AB003151.
HDLAX74	9057	1 - 543	15 - 557	AA059372, AA063107, H92283, and AL096766.
HDLAX52	9058	1 - 819	15 - 833	AA033545, AW265437, and AA332853.
HDLAW58	9059	1 - 869	15 - 883	AA461055, and AI371831.
HDLAV11	9060	1 - 296	15 - 310	AA481536.
HDLAG57	9061	1 - 429	15 - 443	AI354333, AA715876, AI538236, AA828153, AW080910, AL049712, AC008079, AP000501, AC007226, AC007899, AC005082, AC005920, AL021393, AL031737, AC005378, AL049830, AL009031, AC006271, AL008583, AC004796, AL022320, AL049869, AP000552, AP000493, AC007790, AL078623, AC007216, AL132826, AC002326, AL020997, U95742, AC007384,

HDLAC67	9062	751699	1 - 423	15 - 437	AL035414, AC011311, AL008627, AC005237, AC004526, AC005304, Z98751, AC002425, AC006511, AC008928, AL132777, AJ251973, AC005962, AL024493, AP000547, AC005908, AP003355, AC007052, AC009247, AC006277, AC008101, AC002115, AC005057, and AC005089.
HDLAC51	9063	799888	1 - 476	15 - 490	
HDLAC30	9064	799891	1 - 267	15 - 281	
HDLAA58	9065	736081	1 - 479	15 - 493	AA447870, AA447714, AA574205, AA502267, AC012384, AC004941, and AC006463.
HDCBF12	9066	969401	1 - 446	15 - 460	AI874270.
HDCBD07	9067	951948	1 - 416	15 - 430	AI559233, and AC005955.
HDCAN06	9068	933818	1 - 332	15 - 346	AA128887, AA128895, AP000542, and AJ239321.
HDCAG61	9069	852968	1 - 495	15 - 509	AA658364, AI096634, and AI767001.
HDBAK09	9070	625387	1 - 705	15 - 719	N57222, and AL033377.
HDBAA11	9071	966723	1 - 447	15 - 461	AA680050, AI821757, and AW270550.
HCWWH01	9072	915420	1 - 496	15 - 510	AI690025, AA719414, AA502477, H71101, Z36759, AA584859, AC003684, AC005529, AC005527, AP001052, AC006211, AC000025, AC005581, AL022717, AL021155, AL022578, AC006270, AC004910, AC006026, AC004682, AC004884, AC008040, AF196779, AC003010, AC008116, AC006077, AL022319, AL117338, AC007225, AC004382, AL034429, AL008722, AL022336, AF196969, AC005412, AC008072, AL009172, AC005088, AC009516, AC006449, Z94056, AC004638, AC009294, AC005089, AC004685, AC004963, AL080243, AC005776, and AF030453.
HCWVA80	9073	974488	1 - 457	15 - 471	AC007349.
HCWUS57	9074	974462	1 - 565	15 - 579	N88601, N84855, AA247964, N84048, N83992, AA096046, AA095359, N89520, N83991, N83168, AA247964, N88782, H58760, AA093224, N55698, AA095641, AA096066, AA471338, N84718, N86694, N83993, N84712, N88518, N84830, N87989, N84829, AF102850, U48696, AF039698, AR066487, AF103726, S78798, AF045432, AF032922, AJ243486, and U39066.
HCWUS50	9075	974467	1 - 568	15 - 582	N88782, N84855, N88601, H58760, AA095359, N83991, N83992, AA096046, AA096046, N83168, AA247827, N89520, N84048, AA247964, AA095641, N84830, N84712, AA471338, N84718, N86694, N55698, N83993, N84829, N88518, N87898, AA089553, U39066, AF102850, AR066487, AF103726, S78798, U48696, AF045432, AF039698, AF032922, and AJ243486.
HCWUQ81	9076	853002	1 - 505	15 - 519	H83216.
HCWUQ10	9077	964080	1 - 471	15 - 485	AI082150, and AA865640.
HCWUP62	9078	743064	1 - 597	15 - 611	H44723, AI820826, H26859, and AI820767.
HCWUM01	9079	974466	1 - 634	15 - 648	H58760, AA096046, N88601, N84855, N83168, N88782, AA247964, AA095359, N83991, N89520, N83992, AA247827, AA096066, N84048, AA095641, N84830, N84718, N86694, AA471338, N87989, AA089553, N84829, N87898, N55698, N88518, N83993, N84712, N87989, AA471338, N84830, N84718, N86694, N55698, N88518, N83993, N84712, N87898,

HCWUL35	9080	1 - 679	15 - 693	AC005226, AF103726, U48696, AF039698, AF102850, S78798, AR066487, AF045432, AF032922, AI243486, and U39066.
HCWUI49	9081	1 - 396	15 - 410	AA418115, AA417937, and AA765368.
HCWTP17	9082	1 - 430	15 - 444	AA126089.
HCWTL02	9083	1 - 608	15 - 622	AI417821, and N25970.
HCWSC38	9084	1 - 533	15 - 547	AA446435.
HCWLA43	9085	1 - 427	15 - 441	AA428577.
HCWKT71	9086	1 - 333	15 - 347	N57837.
HCWKS70	9087	1 - 340	15 - 354	AA526413, AI521525, AI249365, AW238712, AL040430, AI188049, AA286836, AW020150, AI278372, AW327852, T30864, AI557422, AA572974, AA745302, AA947265, R49266, AA729253, H91704, AA683069, AA525807, AW022897, AA370037, F01222, AW243945, AL041681, AL041682, AI567391, AL035681, AP000344, AL031120, AL096791, AL022165, AC007363, AL034429, AP000359, AP000301, AC005998, AC009247, AF047825, AF039906, AF045555, AC005484, AL132712, AC005702, AP000116, AL122020, AC007934, AC004815, Z82190, Z98036, AC004144, AC004834, AC004148, AL049576, U91319, Z98884, AC007225, U63721, AC005520, AC006270, AC002558, Z93930, Z85986, AC009509, AP000555, AL023805, AC005037, AP000252, Z84480, AP001053, AF064861, AC005288, AL020997, AF112482, AP000080, AC006965, AC004476, AC006468, AC007842, AC004560, U47924, AL133243, AC006468, AC007227, AL049830, AC002563, AL031577, AC005913, AC002314, AL034549, X89398, AC005015, AC005231, AC007308, AP000505, AC019014, AL022326, L78833, AC002310, AB020865, AP000691, AC005412, AL049692, AC005971, AC006132, AC004878, AP000547, AC002288, AC005225, AC012330, AC005089, AC005510, D42052, AC003982, AC005736, AC006960, AC004983, Z82198, AC006241, AL049760, AC007676, Y14768, AF205588, AL031295, AC000094, U91323, AF031078, M27147, Z93017, AC005387, AL008729, AC000003, Z98304, AC004000, AC004019, AC005102, AL049569, AC005057, AL035458, AC004623, AC005932, AC008372, AC016025, AC002511, AC005399, AF030876, AF129756, AC007193, AC004814, AC005874, AF134471, Z97056, AF176815, AP000354, AC005632, AC004998, AC003104, AC002389, AP000212, AP000134, AC005839, AC005730, AC004916, AC005212, AC004685, AC004024, AL096703, AC007536, AC005899, AC005067, Z83844, AL049776, AP000501, AL096766, AC007666, AL135744, AC005755, AF195658, AC004466, AL132987, AC008132, AL031229, AL034402, AL121603, Z69921, AC006261, L47234, AC002565, AC005328, AC008012, AL117356, AC002316, AL035450, AC006050, AL049758, U95739, AC005722, AC004382, AJ009610, AC004876, AP000045, Z98886, AP000209, AC002400, AP000141, AC004916, AC005722, AC002477, AC007384, AF030453, AL133245, AC006064, AC007055, U85195, AC005722, AL009181, Z85987, AC003983, AF001552, AC005527, AC006948, AC005207, Z97054, AL009181, Z85987, AC003983, AF001552, AC005527,

HCWKS35	9088	706518	1 - 319	15 - 333	AC005778, AL109628, AP000557, AC004663, AC006367, AF196779, AL022320, AL080243, AL049795, AC003663, AC006080, AL031602, AC008115, AF196969, AC002115, AP001060, AC003043, AC005005, AC005512, AC005378, AC002375, AC004938, AC004973, AC004780, AC000353, AC003662, AC004672, AC004033, AL136295, AP000338, AC005529, AC005088, AC004882, AC004111, and AC003962.
HCWKR86	9089	784705	1 - 369	15 - 383	AL121879, and AC002526.
HCWKR85	9090	783555	1 - 271	15 - 285	AI811879, AW270258, AA659360, AI254779, AA602906, AW438542, AW075729, AI708005, F00564, AA700943, AA622801, AW117740, AA833896, AA833875, AA769429, AL048275, H53217, AA765170, N72170, AW020992, AI249886, AW438539, F02999, H66577, AI654247, R95840, AI253376, R94288, AI281881, AW304805, AA470567, AA302978, H60249, AC010169, U67818, AC007055, AL109984, AL121655, AF039907, AL139054, AC006077, AC006211, AC016027, AC006441, AC016830, AF053356, AC005015, AC002477, AL049631, AL049780, AL035422, AC004067, AC002350, AC002351, AC004031, AC007199, AC004752, U78027, AC006251, Z97184, AC007565, AC006480, AC004087, AL031311, AP000299, AL133246, AC005911, AF111168, AC005377, AC006323, AL021939, AC004922, AC007551, U85195, AC005914, AP000032, AL022163, Z97056, AL022311, AC004815, AP000212, AP000134, AC004382, AC002429, AC006333, Y15727, AE000658, Z83840, AC005821, AC005180, AC005200, AC004983, AC002463, AL031291, AL050321, AL031666, AC005940, U34879, AL080243, AC002544, Z93023, AC006312, AC007688, AF196779, AC005273, AC005902, AC002107, AL049776, AP000045, AP000113, AC004805, AL049856, AC006014, U91326, Z93241, AC005488, AC004796, AJ010770, AC004805, AL031848, Z81364, AC006014, U91326, AC003098, AC005369, AF088219, Z99943, U73637, AC007263, AL133353, AF017104, AC005089, AC004841, AF111167, AC002312, AC005295, AL031985, Z93020, AD000833, AL049872, AF001552, AC005620, AL049713, AL022165, AC000039, AF031078, AC020663, AL021154, AL021394, Z82976, AC005520, AL023803, AF047825, U52112, AC007860, AC004821, AL023575, AC005225, AL133245, AP000555, AF015416, AC004148, AC005722, AL022476, Z83826, AC005562, AF030876, AC007308, AC004000, AL096701, AC007277, AC004216, AC004125, Z70280, AC004638, L78833, AC004686, AL022320, AC004099, AP000563, AL030996, AC005484, AC006208, AC005048, AL033521, AL031602, Z82208, AC005086, AC005183, AP000692, Z97054, AC006449, Z68870, AC002531, AC004914, U15177, AF207550, AL096801, U07563, AC005756, AL022316, AL035398, AL096791, AC004647, Z98941, U95743, AC002072, AC007868, AL049766, AC002543, AP000501, and AP000346.
HCWKR62	9091	742602	1 - 314	15 - 328	H78195, AI284640, AA581903, AA652764, AA482711, AA111909, AI431303, AA631363, F29989, AW419262, AA214342, T53128, AL041690, AA514737, AI817516, AW088202, AW327868, H71429, AA669840, AI282310, AA192740, AA650211, AA178953, AA483223,

AA496260, AII33297, AI632991, AA768905, AI917271, AW265385, AA828712, AA904218,
AA598824, AA503673, AA528519, AA346458, AL046409, AI270117, AA614070, AA623002,
AW029038, AI962050, AI619997, AL038072, AA228420, AI358229, AA171513, AA490183,
N27760, AA085124, AI625244, AW301350, AA493708, AW406755, AW303196, AW274349,
AA834755, AI368256, AA703891, AA906889, AI334435, AI929531, AA501600, AA721981,
AI307608, F36273, AW193295, AI904894, AA482681, AI696962, AA531372, AI339850,
AA491284, AI580652, AA767376, AW023672, AA846952, AA745355, AA587604, AA877817,
AI887483, AA657535, AI254316, AA177061, AA629992, AA469451, AA228332, AA502050,
AL038785, AA652057, AI064864, AA533725, AA493456, AI686809, AA601270, N25303,
R95139, AW062724, N71728, AA488573, AA878438, AA719292, AA992351, AA610783,
AA613227, AA501418, AI828463, AA568341, AA837084, AA501722, AI613280, AI345157,
AI679045, AA079328, AI305766, T94075, AA196796, AA164251, AI819574, AA515644,
H86431, AP000294, AP000111, AP000043, AC005215, Z98885, AC006312, AF015416,
AC004813, AC007051, D83989, AC007919, X53550, U18391, U18392, X55925, AF077058,
U57009, U18395, U18394, U57005, I51997, X54181, X54178, U57008, AL031985, X54180,
U57006, AC007773, AL008715, AL121655, AC004853, X75335, AP000090, U18399, AL133353,
AL080242, AL022163, AF015160, X54175, U18398, U18393, X54176, AC000353, AF190465,
AL117330, AL049829, Z84469, AC004451, AL035450, AC009516, U18387, AP000553,
AL117258, Z69666, AC002094, Z93241, AC002470, X55924, Z98051, D87675, M57427,
AL034451, AL035361, U67218, U18390, AC004534, AC007541, AC005594, AB009804,
AC004069, AC005231, AC031257, AC004593, AL049699, AC005625, AC007437, AL078477, AC007384,
AL023882, X55931, AL031257, AC005755, U07562, AC002430, AC003007, AL049544,
AC006241, AC002369, AC004019, AL035410, Z86061, AC007151, AC006271, AL132987,
AL022322, AP000459, AC008064, AC003109, AC002476, AL121603, AC005701, AC005229,
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AC005527, AC002468, AC006011, AF128525, AF165142, AL080243, AC007462, AC007279,
U91321, AC006213, AL022302, U63721, AB020865, AC005563, AC006960, AF111169,
AC010170, AC004895, AC016027, AC004662, AC004662, AC005784, AC005291, AF123462, AC003047,
AC002429, AC000004, AL031662, AL021808, AC005914, AL050333, AC008249, AC000052,
AL049759, AL008718, AC002308, AC005295, AC004933, AC006130, AL049697, AC005399,
AC007043, AC004914, AF041427, AC005331, AC004987, AC005331, AC005661, AC002565, AL035458,

HCWKR51	9092	725027	1 - 329	15 - 343	AC007274, AC004152, AL109963, AC003957, AC007387, AC006537, AL031428, AF001549, AC006251, AL133238, AC007032, AC007656, AC007487, AC005924, AC004876, AC006016, AC011504, U95742, AF010238, AC008372, AC005212, AC007682, Z83822, X55928, AP000328, AL050343, AC002425, Z98744, AC005037, AC005323, L13176, AC005829, AL049776, AC005592, AC002538, AC005488, AL049712, U78027, AL096771, AC004799, AL031255, AL031427, and AC007537.
HCWKR14	9093	658421	1 - 413	15 - 427	AI376239, AI887314, AI224387, AI632810, C15060, AI857756, AI457313, AI634187, AW069227, N58179, AA630535, AA452887, AA598927, AW151247, AJ192839, AA669054, AA811741, AA743968, AA218720, AA084609, AW082470, AA368616, AA604865, AA548886, AA340581, AA581247, AI471476, AI912401, AI066646, AI357628, AI537995, AI536858, AI130709, AI955029, AI491765, AA021189, H07953, AA626829, AW272640, AA021429, AI742168, AA481887, AA489240, AI370170, AA659608, AA086318, AW080356, T74524, AA515457, AW188742, AA493731, AW304699, AI679221, AA598605, H84412, R43992, H48767, AA666295, AI289941, AI802087, AI289942, AC005058, AC007421, AL049636, AL031685, AC016027, AI021878, AC016830, AC002996, AC005225, AJ003147, AC002302, AC005940, Z84466, AL035587, AL049776, Z97876, AC005512, I34294, L24093, AL080243, AC004531, AC004216, Z98946, AC005082, AC005844, AC004542, AL034420, AC006347, AC005231, AC004817, AC006449, AL049697, AC005071, AL024508, U63721, AP000501, AC006285, AC002352, AC005412, AC005006, U80017, AP000212, AP000134, AC005881, AC002565, AC005200, AC004598, AL035690, AC002369, AC005971, AC007671, AF047825, Z85986, Z84480, AC002303, AC005049, U95739, AL021578, AC007051, AC004590, AC006006, AL022721, AP000252, AL049830, AC005696, U91325, Z85987, AC002045, AC004878, AC005295, AC006538, AL096701, AC006014, AC012331, AC005041, AC000079, AL136295, AL031311, AC004477, Z83844, AC003109, AL031431, AC007917, AC002350, AL049839, U91321, AC005378, AC008372, U52111, AC003982, AC006111, AL121603, AC006468, AL110502, AC004815, AC004882, AC005520, AL049869, AC005399, AL031735, AL035086, AL050307, AC006065, AC010077, AC007395, Z83845, AC007216, AL008719, AL022165, AC007666, AC008040, AC002314, AC005274, AL031602, Z94056, Z98884, AC005529, AC004832, AL022237, Z82206, AL031291, AL049874, U07561, AC005488, AB003151, AC005899, AC005914, AF207550, AL109963, AL031848, AC004895, AL049757, AL109627, AC004526, Z82178, AC005081, AL031657, AC006211, AC002558, AP000042, AP000110, AC007129, AC007325, AL133238, U95742, AL022320, AL132777, AC005037, AL031673, AC004814, AC000035, AC005682, AL050321, AL121653, AL022316, AC004655, AC006023, AC007938, AC004851, AC020663, AC006509, L47234, AC002390, AL109623, AC006241, AL049793, AL133244, AL022336, AF134726, AL031985, AL022322, Z82215, AC006121, AC004854, AC004893, AP000032, AC006040, AC006057, AL035422, AP000251,

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HCWKQ09	9094	1 - 448	15 - 462	AI804923, N70274, AI992261, AW140138, AA934526, AI793312, W88993, and AI077351.
HCWKI72	9095	1 - 188	15 - 202	AW090499, and H43869.
HCWKD85	9096	1 - 288	15 - 302	W45058.
HCWKC61	9097	1 - 640	15 - 654	R00030, W88606, AA777327, W88525, AI033236, and R00122.
HCWHN53	9098	1 - 332	15 - 346	AA148646.
HCWHF76	9099	1 - 683	15 - 697	AI963720, AA490183, AL046409, AW406755, AI431303, AI284640, F36273, AI345654, AA581903, AW193265, AI754955, AW072923, AW274349, AL119691, AI334443, AI350211, AA525824, AI270117, AW303196, AI613280, AA610491, AW276827, AL043719, AW301350, AW419262, AI281881, AI679782, AW438643, AI561060, AW327868, AI801591, AW088846, AI246119, AW270270, AA491814, AI344844, AW029038, AI754253, AW276435, AI345681, AI345675, AI200051, AI341664, AI619997, AW238278, AL138455, AW072587, AI085719, AI696793, AW265009, AI061334, AI289067, AI471481, AA720702, AI357288, AI379719, AI375710, AI792287, AI053672, AA613345, AW162049, AI962050, AL037683, AI801600, AI929531, AL044940, AI358229, AA713815, AW410400, AI471543, AW276817, AI799642, AI860020, AA469451, AI355206, AW408717, AW193432, AW407578, AI669453, AL041690, AI688846, AI339850, AA521399, AA521323, AI754658, AL046205, AI761471, AW406162, AA806796, AI537955, AI110770, AI365988, AA669840, AI589230, AL042420, AL120687, AI133164, AW265393, AW404653, AW166815, AA229814, AW088202, AI298710, AI148277, AI124759, AA491284, AL048925, AA630362, AW304584, AI904894, AI633025, AI635818, AI708009, R88888, AA569471, AI610159, AA525190, N48230, AL138265, AI654588, AA631507, AI473943, AI312309, AI345518, AW162489, AW167372, AL038785, AW023270, AL079645, AI871722, AI336660, AA226153, AI890918, AA623002, AI133102, AI568678, AA714453, AA665330, AA577906, H71429, AW008952, W79504, AW071196, AW261871, AL046457, AI281697, AI143242, AW338086, AI928790, AI357551, AI499503, AI467919, AI434695, AW073470, AW103758, AI918421, AA126051, AA126035, AA502155, AA577959, AI564185, AL040382, AA780515, AW088616, AA513141, AI287651, AI471572, AI571512, AI251002, AW008317, AW339568, AI590958, AI749559, AI624142, AI049634, AW023672, AA493708, AI240168, AA482711, AI283911, AA587256, AI370878, AW162288, AA551552, AL041146, AW080134, AA526787, AW102955, AI564454, N27584, AA621858, AA493471, AI623720, AA877817, AL135405, AI654525, AA507547, AI287528, AI254615, AW276932, AW338500, R98967, AL046898, AA908687, AI886629, AA559290, AI434706, AC005488,

HCWGY56	9100	732688	1 - 353	15 - 367	AC005971, AC004593, Z74696, AC006369, AF077058, AF015148, D83989, AC005209, AL031116, X75335, AF015151, AL078623, AC005516, AC005703, AC002070, U18391, X55925, I51997, AC004485, AF015157, U18392, U57007, AF015156, AC005988, U18394, U57005, AF049895, U57006, X54180, AC004063, X53550, AC003104, U18390, U12580, U57009, X54181, U18395, U18393, AC003087, U57008, AC004677, X54179, AF015147, AC004492, U18399, X55926, M37551, AL121871, X54175, AF015153, AL109941, AC016830, AF015166, U67801, X55932, AC007684, U02532, U18387, AC006130, X54178, AC006597, AF015152, AF015167, AC006344, AC005548, AC006013, AC006013, AC005154, X55931, U18398, X55924, U02531, AC016027, AC006017, A39972, X54177, AF027390, AL136018, AC003957, AC006115, AC005013, U18396, AC004028, AL136297, AL031387, AL078593, AC005699, AL022163, X76629, AC005225, U69730, AL035079, AP000567, AF015149, AC010072, AC005019, AC006989, X55923, AC007043, AC007551, AC004986, AF015150, AC007537, AC009069, X54176, X55922, AC004033, AJ236701, U85195, X55930, AC004650, AC008064, AL021940, AL022160, AF042090, AC006539, AC004673, AC006023, Z94801, AE000658, AP001172, AC005792, AC003005, AC006057, AC002379, AC006044, AL080239, AC007488, AC004957, AC010722, AC006002, AL009181, Z86090, AL132992, AC007387, AC005011, AL031286, AF015162, AL022316, U18400, AC004821, Z97180, Z69837, AC006512, AL121603, AC009233, AF064863, AC002465, L47228, X55927, AL035071, AL035361, AL133289, AC006430, AC005544, U91322, AF003627, AC004072, U82696, AB023049, AL080285, AL021546, AC005280, AC005164, AP000088, AC004008, Z22650, AC005378, AC007676, AC008981, AC008168, AC020663, AL121877, AL022724, AC007919, AC005531, U57004, AL049829, AJ229042, AL132987, AP000047, AC005324, AC007051, AC005841, AL096862, AL021155, AL080248, Z98050, Z86061, AL023879, AL023755, AC006960, AC005188, L35531, AC005701, AC002303, AL031767, AC006111, AL133321, AL133109, AL022238, AB020859, U67222, Z84721, AC006079, D87008, AC002504, U67827, AF020803, AL080243, AC007050, U67221, Z98046, AL050326, AC016026, AL023713, AC004848, AC004534, D88268, AC008134, AL031904, AC007065, AL096770, AL133245, AC004019, S75201, Z69706, AL080242, AF135028, AC011198, AP000477, AC004468, AC004159, AC004158, AF002992, AC006946, AL096776, U66059, AC002996, AC005212, AL023876, AL078621, AC005527, AL035466, AC007227, and AL096861.
HCWGU65	9101	747198	1 - 648	15 - 662	H60503, H73127, R87153, and H54125.
HCWGR02	9102	920121	1 - 449	15 - 463	T62926, AI565392, and T62778.
HCWGE86	9103	974476	1 - 556	15 - 570	
HCWGE85	9104	783528	1 - 346	15 - 360	AA001715, AA677924, AA633058, and AA730673.
HCWGA64	9105	746153	1 - 217	15 - 231	AI357815, N71226, AA829044, AA651632, AA630672, AA583394, AA602906, AA664900, AA502818, AI860587, H60971, AA535216, AA568754, AW020088, AA213959, H92527,

AA532419, AA714288, AI002941, AI630643, AL038606, AA632744, AA579188, AA581895, AI056177, AA515728, AA715805, AI524360, AA353907, AL048925, AA011026, AA714011, AA912287, AA661499, H48620, AI186438, AI249683, AA086368, AW168433, AL119921, AA491681, AI341571, T06598, AW020599, AI085867, AI732348, AA603421, AA838190, AA581263, AI580250, AI382825, AL138329, AA486117, AI612070, AI460009, AI065038, AW270343, AW271069, AA603530, H49568, AA137013, AI610065, AA574001, AA457249, AI207846, AA669155, W03358, AI733856, AA491650, AI754567, T69857, AA491862, AA610509, AA410788, AI611533, AI002744, T59612, AI054419, AA622801, AI278972, AI732349, AW023662, J00083, Z93244, AC005031, U80017, AF002223, AF088219, AC004675, AP000692, AC006953, AC005993, AC006275, AC006001, AC005391, AL080243, AC007999, M33132, AC002407, AC002543, AP001051, Z84483, AL031311, AC005399, AC000085, AL031680, AC006023, AC006353, AL008734, AC006312, AC004750, AC002300, AC004491, AL079340, AC002301, AC007406, AP000270, AL121595, AC005288, AC002115, AP000962, AL133353, AF045555, AC006468, U78027, AC005011, AL021154, AL121825, AC006115, AC005778, AL020997, AL049761, AC005839, L48038, Z84484, AC007773, AC004232, AC004832, Z98752, Z95152, AC004821, AC007308, Z84474, AL035422, U95739, AC006120, Z94044, AC000026, AP000555, AC007358, AL096712, AL009183, AC005015, AC006064, Z82248, AC004408, AL022316, AC003969, AF064861, AC006344, AC006538, Z69917, AL135744, AC004030, AF207550, AP000104, AC006088, AC006211, AP000032, AC006112, AL034417, AC002059, AP000193, AL122020, AC004841, AL078477, AC006125, AC006946, AC003030, AC007292, AL035541, Z93023, AC002472, AF111168, AL049775, AP000557, AC004230, AL109758, AC007225, AC012384, AC005808, AC002470, AC003043, AL096766, AP000097, AC005159, AC020663, AL022165, AC005884, AC004815, AC007934, U95742, AC005369, AC002477, AC004825, AF085916, AC004560, AL031447, Z93930, AC005529, AL031432, AL022326, AC005088, AC004595, AC004910, AB023049, AC006965, AC007787, AL031671, AF165926, Z70280, AC005368, AB023048, AP000466, AF196970, AC005102, AC005257, AP000201, AC008042, AC005881, AB023048, AP000117, AC005519, AC004453, AL031659, AL109984, AC004883, AL050341, AC004149, Z97054, AC007792, AC006111, Z83826, AL021707, AP000266, AC005932, AL022476, AC004966, AC004851, AC008041, Z85986, AC003109, AD000833, AC005037, AL031289, AC007277, U62293, AL022336, AJ251973, AC005409, AC004236, AL139054, AC004884, AF200465, AP000159, AP000017, AC002492, AC009509, AC007686, U67820, AL049776, AF196779, U07562, AC004000, AC004938, AC005800, AC004032, AC007216, AC007371, AL023494, Z98742, AL109802, AC006947, AL133448, AL035587, AL109627, U73634, U07563, AL121658, AF030453, AC007676, AC008119, AP000302, AC005412, AC002549, AC004686, AL009051, AC004991, AP000345, U91322, AL031281, AL049872, AC000118, AC002994, AL078584, AC002563, AC004019, AP000030, AL035423, AF190465, AC000118, AC002994, AL078584, AC002563, AC004019, AP000030,

HCWFV07	9106	1 - 417	15 - 431	AC005486, AC022517, AL121653, AL033527, AL049795, AL022324, AC005632, AC005033, AC002565, AC005274, AC002554, U52112, AL034420, Z83838, and AC005525.
HCWFU40	9107	1 - 516	15 - 530	AI125400, AA884999, AF124523, and AF118808.
HCWFM44	9108	1 - 591	15 - 605	AA194830, AI168347, AA878779, and AW193187.
				R76265, R97725, AI741451, AI868531, R26030, H57394, R26000, AC004654, AC005260, AC005392, AC004784, AC005238, and AC005791.
HCWFK37	9109	1 - 292	15 - 306	AA669155, AI891080, AC009044, AL035249, AC009247, AC004805, AC005399, AC005005, AC004928, AC004148, AC004858, AC005304, AL049636, AL121754, AC004743, AC004895, AL020997, U91326, AC002416, AC005003, AC007688, AC004821, AL021392, U91322, AC007774, AL031733, AC006211, AC005529, AC005484, AC005841, AL022238, AP000696, AL031283, AC005520, AC003101, AC007358, AC004129, AL133448, AC002544, AC005846, AC002301, AL109798, AF053356, AC006277, Z73417, AL049643, AL109839, AC004408, AC005837, AF207550, AC007308, AC005971, AC004983, AC004478, AC005358, AL049709, AP000326, AL022721, AC008134, AC005544, Z98884, Z83844, and AF001549.
HCWFI71	9110	1 - 425	15 - 439	
HCWFE35	9111	1 - 383	15 - 397	H95168, AW249352, AA479537, H17584, AA340567, AW161280, AA160751, AW162903, AA220220, AI929687, AI005164, W51926, AA130689, AA907575, N75168, AI676056, N29217, N26362, AI244335, AA833853, W58723, T11688, AI806567, T57726, AI017884, AW055105, AA836509, AI478719, AA431503, AI492277, AI735743, AI830776, AI582674, AF069762, AF188202, AF188203, AF188204, AF188201, AF169647, AF169648, and AF045528.
HCWFA63	9112	1 - 349	15 - 363	AI890862, AC000025, AC007227, AC005529, AC005527, AD000092, AL049709, AC004491, AP000353, AL031295, AC002369, AC005531, D00591, AC007666, AC005736, AP000555, AC007308, AC004477, AC003684, AL080243, AC006449, AC004859, AC005913, AC007055, Z98884, AC006001, AC005513, AC000052, AF134726, AL023807, AC005291, AC004019, AL049830, AC003982, and Z93023.
HCWFA51	9113	1 - 361	15 - 375	AA601216, AA603315, AA262273, AI904944, AA594018, AI565084, AA771892, W42587, AA745653, AA586433, W24312, AA558404, AA074942, AA828153, F35674, AA508069, AL037837, AA714729, AA584484, AA788951, AI018726, AW247389, AA314126, R56810, AA363003, AI049643, AA486877, AI284126, AA721530, H71678, AA721523, AA582350, H54252, AA526643, AA507993, H81732, H65213, AW088557, AA634926, H53284, N74566, AW243945, AA669560, F23307, N57674, AI039539, AA564256, AI884861, AA064978, AA678976, AI251576, AA642809, AI306232, AI620266, C06471, AI623715, AW274191, AA481765, H52397, AI583466, AI159799, AI276360, T69571, AI306717, AA678616, AI984168, AA029860, R33091, AA553579, AA018923, AA012829, AI252010, AI252880, N27615, AW188419, AA654482, AI583448, AA635413, AA321010, N54538, AA367014, AC007308, AC004531, AC005696, AL122020, AC008009, AL049709, AC007688, AL034423, AC000035, AC006430, AC002551, AC005072, AC002551, AC008124, AC008928, AC016830, AC016027, AC000025,

HCWFA35	9114	908820	1 - 352	15 - 366	AC003070, AL121825, Z77249, AC007541, AF006752, AL031311, AC005514, AC007666, AC002070, AP000113, AP000045, AC005049, AC007686, AF053356, AC006960, Z86090, AL096776, AL133163, AC008044, AC007151, Z85986, AC004638, AC006013, AP000359, AL049631, AL023807, AL022396, AL009181, AC006277, Z98044, AL121658, AL109758, AC006064, AL135960, AJ131016, AC004491, AC005102, AP000502, AC004797, AC006111, AL024498, D00591, AL023575, AC004859, AC005081, AF002223, AP000555, AC005529, AC016025, AC005031, AC003108, Z97181, AL121655, Z93241, AC005664, AC002365, AC005899, AL109984, AC005237, AC004876, AC005189, AC006511, AC006512, AC000120, AC005914, AC005089, AF196969, AD000092, AL034379, AL096701, AC005746, AC007227, AC000052, AL050318, AC004150, AC005383, AL049830, AF047825, AC004975, AC003029, AC005736, AC004832, AC004148, AC005488, AC005837, AP000350, AC002350, AC006275, AC006480, D87675, AC004816, AL133243, AC005722, AC005538, AC002126, AC007191, AC005901, AC005531, AC005972, AF196971, AC007878, AC004601, AP000090, AC005527, AL133445, AC007216, AC007226, AC004019, AC002492, AC005523, AC000379, AC004668, AL121653, AC008072, AL034420, AC002369, AL049776, AP000009, AL133246, AL035249, AL031767, AD000813, Z82244, U47924, AL080243, AL121652, AC005921, AC003983, AL009172, AC004167, AF111169, AL031120, AL136168, Z97053, AC002117, U95742, AC002312, AP000356, AC005372, AL022322, AL023513, AC005015, U80017, AC005932, AC005993, AC002452, AC003071, AF001549, AC002300, AF134726, AC005412, AL049795, AC006026, AP000692, AL117337, AC006132, AL049757, AC002470, AP000150, AC006241, AC004257, AF190465, AC005480, AC005726, AC006014, AF048729, AC005702, Z98036, AL008718, AC004814, AC004611, AC007199, AC007773, AL031587, AL031591, AC007050, AC004589, AC006538, AC002316, Z97353, AL031732, AC003962, AC006965, AC002094, AC005399, AC006050, AC005821, AL035458, AC005920, U85195, AL021392, AC005387, AC005409, AL109627, AC005288, AP000513, AC004560, AC006211, AL021391, AF064861, AC002310, AL121748, AL034582, AC004582, AC004801, AL022476, AC005778, AC005386, AL021155, AC005193, AL022721, AC004801, AL022476, AC005778, AC005338, AC004966, AL022328, AJ003147, Z81365, AC007314, AB023048, AE000658, AL031666, AC004448, Z95116, AC006126, Z85996, AC000353, AL035086, AC004031, AC006441, and AC004447.
HCWFA27	9115	578899	1 - 337	15 - 351	AL022322, AC002045, AC002375, AF001549, AP000510, AC006480, AC004491, AC004150, AL133163, AC008372, AC006275, AL021155, AC002094, AC004985, AC006530, U91322, AC002400, AC005914, U91326, AC006163, and AP000032.
HCWFA03	9116	921938	1 - 367	15 - 381	AA191418, AW131043, AW020736, AI962030, AA515728, AI004591, AW020088, W39694, AA833896, AA833875, AA644090, AA578621, N22425, AA600202, AI566408, AA581247, AI001764, F13808, AA452887, AI537397, AA559208, AI590906, AW068007, AW068008, AW067788, AA526326, T15454, AA449428, AI273847, AW192284, AA365190, T72218,

AA622954, AA078616, AA643770, AI580250, AA182731, AA303054, W03818, W45205, AA054343, AA581263, F30158, AI682899, AP000557, AC007050, AC007308, AP000556, AF111168, AF141309, AC007227, AF134726, AC005529, AL022323, AC002565, Z84466, U78027, AC006277, AC006275, AC005329, AC003110, AC004584, Z68321, M63543, Z98950, AP000503, AC004686, AL117258, AB016897, AC003110, AL031848, AL132712, AC004991, AB015355, AL021918, AC006040, AL049869, AC009516, AL035249, AL034420, AC005971, M63544, AP000098, AC008119, AC005330, AP000115, AL031283, Z83826, AC004382, AC005015, AL008721, AC005800, AC006285, Z98036, AC005620, AC005409, AC005257, AC002312, AC004913, AL049776, AC004821, AL034548, AC006449, AC005231, AC004878, AC004000, AC004678, AC005940, AC006125, AC008101, AC007201, AC004596, AC005632, AC006130, AC005829, L78810, AC004525, AC005295, Z97056, U07562, Z93783, AB003151, AC005512, AP000558, AC006111, AC002316, AB023049, AC004814, Y18000, AL050312, AC004476, AC007055, AL034417, AC006512, AC007637, AC005280, AC004895, AC004876, AP000509, AC002314, AC003070, AC002126, AC005808, AC010205, AL008582, AC007011, AC004851, AF053356, AC009275, AC002036, AC005102, AC005722, Z93930, AC005944, AC003963, AC007314, AC006126, AL031291, AP000494, AC006312, AP000553, AL109984, AL139054, U91328, AC002550, AC005089, AP000140, AL031311, AC005902, AC005520, AC002477, AC006014, AC005874, AF134471, AL035587, AL031311, AC005902, AF111169, AF207550, AC008040, AL023882, AC007793, AL008730, AC005081, AC005057, AC005005, AC006050, AC006468, AL121754, AF044083, AL009181, U95739, AL031602, AC002558, AP000088, AL031295, AC007371, AC004638, AC004234, AC005778, AC004929, AC005548, AB000877, AC007842, AC005821, AF129756, AC002400, AC004013, AL133244, Z86090, AC004673, AC002425, AC005544, AC006486, AL122003, AB001523, AL121655, Z98743, AC004598, AC005535, AL049576, AC012331, AC005695, AL096763, AL096701, AL023807, AC005488, Z95115, AC002082, AL050404, Z98885, AC005747, AC007792, AC005907, AL021391, M63005, AL133163, AC005071, M63480, AL031282, AC004088, AC006211, AL096791, AC005291, AC003007, AR036572, AL078581, Z83845, AC006946, AC007731, AL136295, AD000684, AC005206, AP000045, AF038458, AC010206, AC006064, AC007216, Z83840, AL022163, AL022721, AC005696, Z84480, AC005514, AL008725, AP000466, AF181896, Z92542, AC002347, AC005932, AL050348, AP001056, AL117694, AF196779, AL031427, AC004139, AP000555, AC003043, AC005943, and AC000353.				
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HCWDJ81	9125	514607	1 - 387	15 - 401	AA769123, AA831715, and W92553.
HCWCR40	9126	711507	1 - 425	15 - 439	
HCWCN11	9127	849959	1 - 882	15 - 896	AA255688, N98246, N63895, AA262567, AW166611, AW131457, AI620666, AP000240, X59875, AC005793, AL122003, AL109627, AC005924, AC000061, AC004508, AL033392, AC005574, AC002310, AP000355, AL034410, AC005008, AC004854, AC007325, AC004383, AL031427, AC004755, AC003957, AC007981, AC005014, AL121603, AL033397, AC010209, AP000552, AC005089, AP000201, AL034374, AL021453, AC002299, AL035587, AP000097, AC008018, AC008103, AC003664, AC005776, AC002091, AC005562, AL034420, AC004056, AL031186, AC004913, AF026069, AP000550, AC004686, AC006511, AL024498, AF207550, AC005971, AC007227, AL031003, L05367, U62317, AC005255, AL133353,

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HCWCL46	9129	719244	1-486	15-500	AA235285, and AA811938.
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HCWCI85	9131	840121	1-376	15-390	
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HCWBM07	9134	954100	1 - 470	15 - 484	AI021905, D44646, AW263123, T93266, and AA953383.
HCWAN45	9135	728385	1 - 989	15 - 1003	H56993, H70011, R12267, H57000, H69555, H56910, R11661, R16743, R09996, T77907, T77822, H56905, Z56468, and Z61918.
HCWAI53	9136	586997	1 - 288	15 - 302	AC006504. AA635368, AA381762, AL039309, F31811, AA381747, AA278496, AP000553, AL096791, Z94801, AC004263, AP000255, AC005387, AC005971, AL133245, AL109628, AP000135, M87909, Z98051, AC004821, AP000031, AC004257, AL132712, AL035405, AC004858, AC002400, AP000048, AC007308, AC007285, AC002470, AL080243, AL022163, AC005288, AC004596, AC002985, AL021578, Z97876, AC009516, AL035086, AL035413, AC006271, AL034420, U62293, AL034379, AF109907, AP000211, AP000133, AC005412, AC005808, AL049569, AL121603, AC004216, AC004222, AC006449, AC004854, AB015355, AL031846, AL020995, AL121655, AJ003147, AC006468, AC003104, AC005197, AF196969, AC007842, AC020663, AF111168, AC006111, AC004526, AC002369, AC005562, AL022323, AC006121, AL034429, AC006006, AF205588, AC005796, Z69705, AC000035, AC002119, AC009247, AC004929, L78833, AC005180, Z85986, AC007226, AL121825, AL009181, Z69653, AL022313, AC007263, AC004754, U91326, AP000505, AC005624, AC004983, Z83844, AC005701, AL031282, AC031282, AP000030, AC005520, AP000503, AL008719, AF134726, U73636, AL139054, AC004000, AL023513, AC000003, AC005015, AL031427, AC005225, AC005529, Z82244, AC004874, AL031432, AC002310, AF001549, AC004967, AC004019, AC005102, AL031670, AP000512, U52112, AP000032, AC005222, AC005839, AL031985, AC005914, AC006077, AC004638, AC004478, AC005207, Z97054, AC002425, AC006285, U29953, AC005081, AL022336, AC005619, AC004814, AC000025, AC006210, AC005940, AL020997, U57007, AL031178, AL008735, AD000092, AL035448, AC004230, AC016025, AC000075, AC012384, AP000030, Z83840, Z92542, AC004228, AC006441, AC006026, AC005736, AC004690, AC004552, AF045555, AB023051, AL022721, AC002477, AL121658, AL049694, AC006312, AL133448, AL034423, AB001523, AL031774, AP000023, AC005484, AC000052, AC006597, AF129756, AC005907, AC004991, AC005057, AC004253, Z98048, AC006001, AL049539, AC005694, AC007406, U95742, D87675, AC004531, AC004678, AC006581, AC007684, AC004771, Z93930, AC005089, AL050332, AL121653, AL034417, AL021154, AL078581, AC006023, AC005841, and AL022476.
HCWAB85	9137	783392	1 - 299	15 - 313	AW268090, AA579278, AI031759, AA525156, AI828721, AA847341, H79277, AI570067, AI567676, AA507623, AA460714, M77964, AA635150, AA309287, AA364147, AI245693, AI308529, AA468923, AI174827, AA878140, AA467740, H47461, AW028376, AW023975, AI003474, AA515727, AI370470, AA664963, AA661590, AW188742, H62123, AA578711,

H81012, AI376687, R79396, AA632869, AW303052, AA873661, AW020612, AI813920, AI003391, AI343808, AI884404, AA419107, AA419014, AW169469, AA086318, AA715173, AA715075, AW341878, AI251024, AI065031, AI805373, F24745, AA808842, AI049680, AA527633, AA809104, AI821945, AI536625, AA636077, T94116, AI923314, AA728954, AA152398, H57741, AJ246003, Z84474, AB001523, AL031255, AL121658, AC006530, Z98200, AC004895, AF023268, AC004263, AL022336, AC005971, AJ011930, AC004383, AC002476, AC002996, AC005829, AC006077, AL024498, L44140, U91326, U52112, AC005666, Z93017, AL009179, AC007934, AL049839, AL049780, AC007055, AL035086, AL031295, AC004686, AC006277, AC005914, AC002464, AC002398, AC005531, M26434, AC004000, AL031311, AC002073, AC002544, AC007371, AP000555, U96629, AL022165, AL022313, AF205588, AL035659, AC006084, Z98946, AC006468, AC003006, AL035587, AC006946, AC005821, AC004967, AL031594, AL049569, AC005365, AC004668, AC006071, AC004703, AC005527, AC003093, AC005005, AL133163, AC006014, Z85986, AC006581, AL078460, AC006953, AL034421, AL049743, AL022328, Z83846, AF165926, AL049759, AL033527, AL049694, AC004638, AC004783, AL080317, AB023048, AC004812, AC005488, AC002351, AJ006345, AC004814, Z83840, AC005340, AL031587, AC006449, AC004825, AC005598, AC004816, AL031589, AC005231, AC005519, AF001550, AL050318, Z97056, AL049829, AC005625, AL035420, AL109758, AC005695, AC005516, AC005225, AL121653, AL049757, AL022721, AC005841, AF015720, AF053356, U07563, AC006241, AL035658, AC004025, AC004659, AJ003147, Z98884, AP000141, AL034423, AC005529, AL008582, AC006251, AC005412, AC005015, AC004671, AC002418, AC006538, AL031282, U91323, AC007066, AL080243, U91321, AC002400, AC006360, AC002331, AC007421, AC006312, AC005722, AP000514, U89337, AF109907, AP000704, AC006121, AC007324, AC005822, AC004386, AC006139, AC005089, AC005808, AL031670, AJ229041, AF196779, AC005071, Z82182, AC004883, AC005288, AC005251, AC005726, Z97634, AC002984, AC007536, AL133448, AP000510, AL133246, AC005099, AL031284, Z84480, Z83843, AC005837, AC004019, AL035079, AC000388, AC004760, AC005300, Z99127, AC003098, AC007051, AL031178, AC004974, AC001527, AC000082, AF064861, Z98044, AC002477, AC007919, AL109802, AC005049, AC002991, AC004695, Z74739, AL022726, AP000365, AC005081, AC005828, AP000248, AC008079, AC005484, AC006146, AC004975, AC005920, AC005618, AC003025, AC009399, AC004754, AP000547, AC003036, AL035422, Z84486, AC000052, AC004912, AL049872, AC006317, AL031431, AC031431, AC005202, AC006026, AC005911, AC007384, AP000280, AP000289, AF196972, AC008041, AC005202, AC006026, AC005911, AC007384, AP000280, AP000289, AF001549, AC007686, and AC004673.			
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HCWAB72	9138	766288	

HCWAB49	9139	529659	1 - 51	15 - 65	and AL021546.
HCWAB37	9140	575491	1 - 250	15 - 264	AI053583, AW028950, AI082632, AI792539, AA320852, AA887406, AA373861, AA557493, AA513219, AA598605, AA551067, AI860423, AA513851, F30586, AI734837, AI452863, AI336771, AA715814, F35689, AA230025, AA468371, AA493789, AA224889, AA468505, AA378474, H86801, AL109984, AC005233, AC003684, AL031848, AC006450, AL031589, AC005089, AF024533, AC002395, AC007546, M63796, AC006948, AC005952, AF111168, AC000070, AC006388, AL022165, AL132987, AC007685, AL079340, AC005015, AC005527, AL008734, Z49236, AC005529, AC002544, AF205588, Z97055, AL031602, AC006512, AP000500, AC002565, AC005726, AC006023, AC005512, AC004858, AC005057, AC005914, AC002398, Z93244, AL009179, AL031431, AC005793, AC000024, AL021918, AL049776, D87011, U91326, AF109907, AL096766, AC005229, Z98036, Z86061, AC005924, AC005520, AC004838, AL049694, AC005088, AC004651, AC005519, AC005399, AL031291, Z98742, AL031670, AC002303, AC005940, AC005484, AC005828, AC004526, AL121754, AC002511, AL117337, AC004659, AL109628, AC002470, AL109627, AL049766, AL022302, AF092859, AC006146, AL022311, AL021940, Z86063, AC004851, U62293, AC006441, AC005071, AC005880, Z86090, AC007227, AC006453, AC006079, AC006111, AC005218, AC004811, AC003108, AC005231, AC006011, AB013924, AC003667, Z93930, AC009275, AL022316, AC005081, AC006952, AC005004, AC007386, AC006211, AF196972, AC004777, AC004804, AL080243, AC002287, AL035587, AL132712, AF111170, AC005808, AC005076, Z97054, AC004525, AC006468, AR004690, U07561, AC004849, AL109798, AC009516, AC007376, AL022320, AC004770, AC004491, AC004771, AC004228, AC005632, AL031284, AC004106, Z97630, AL034449, Z83846, AL133163, AL121603, AC004148, AC005730, Z75407, AC009247, AC004890, AL049869, AC007151, U02051, AC004893, AL021393, AP000113, AE000660, AP001046, AC004765, AC005666, AC004883, AC004854, AL021393, AP000113, AE000660, AP001046, AC004765, AC005625, AC005874, AF134471, AL031767, AC004938, AL050307, AC007283, AC008115, AC007566, AL135960, AJ131016, AC004560, AL020997, AC006277, AL096761, AP000116, AC007030, AC008041, AC002997, AL031133, AL096791, AL022326, AJ251973, AL035659, AL022312, Z98052, AC011311, AL034549, U61981, AC005306, AC004929, AC005772, AC008056, AF001552, AC003041, AC009721, AC004805, AC005871, AC007999, U07563, AC003025, AC006597, AL022322, AL121653, AC004881, AL021155, AL024498, and U89335.
HCWAB36	9141	529660	1 - 230	15 - 244	
HCWAB35	9142	416968	1 - 209	15 - 223	R95748, AA721645, T58440, F35097, H85059, R70333, AA152404, AA358623, AA227482, AA347232, AA857381, AA908431, AA836548, R33941, AA508873, AA318064, AA187338, AA713715, H86105, AW272606, AA664163, AA608729, N24473, AI569363, AI754064, AA559219, AI086603, H86095, AI873627, R22196, AA503468, AI476372, AA533176, R79396, AA975997, AA481887, N58464, AI491765, AA648957, AC006449, AC005520, AP000496,

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| HCWAB25 | 9143 | 575270 | 1 - 151 | 15 - 165 | AA630672, AW148507, H18914, AL047429, AA640430, AA127426, AI292257, AI537772, AI249473, AA838190, AI054354, AA720732, AA961035, AI251576, AA664942, AA283730, AA128511, AI630176, AA954924, AI040051, AI306232, AA324242, AI434695, AA018207, AA714011, H25921, AW410354, AA101689, AI341571, AA629872, AA507612, AI583466, AW303096, AW268291, AW274191, AI802801, AA504049, AA507187, AI783549, AA749235, AA574442, AI085867, H29511, T06598, AA661499, AA583394, H15652, AA993818, AA610509, AA070345, AA535216, AL044940, AI002744, AA629540, AW439555, F15832, AI460009, AA554634, AP000012, AP000153, AC005578, U67820, AC000087, AC007536, |

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AW136667.

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| HCWAB23 | 9144 | 529664 | 1 - 291 | 15 - 305 |
| HCVAC86 | 9145 | 785784 | 1 - 311 | 15 - 325 |

HCVAC80	9146	1 - 302	15 - 316	AL034379, AC006509, and AC007536.
HCVAC73	9147	1 - 352	15 - 366	AA935456, AW004884, AW338179, AA223174, AI917134, H82265, AL049697, AC004000, AC005971, L78810, Z84480, AC002550, AC008372, AC005071, AP000500, and AL022336.
HCVAC72	9148	1 - 247	15 - 261	AL008583.
HCVAC70	9149	1 - 801	15 - 815	AA196390, AA196468, AA507837, AI537538, AA845293, AI051037, AI500454, AL038936, F27015, AI446601, F23315, AA772016, AI982634, AI954525, AI744949, AI708005, AA064938, AA229444, AW157005, AC001228, AC005996, AC005210, AC007436, AJ003147, AC005399, AC005725, AC006486, AP000038, AP000106, AL031255, AC005324, AC005539, AL022163, AL049569, AL009179, AL031685, AL021938, AL121653, AC007792, AC012083, AC007066, AC006544, Z93017, AC005412, AL035587, AL008715, AC007344, AC002369, AC003029, AC005536, AP000210, AP000132, AL035443, AL133245, AC005531, AC005914, AC004087, AL033392, AL031774, AL031846, AC004000, AL096767, AF091512, AL031055, AC006111, AC005722, Z95116, Z74739, AL049829, AC004209, AL109628, AL096701, U53930, AC003954, AC005696, AC005529, AC008033, AL034417, AC004019, AL034420, AC020663, AC003964, AC004918, AC002994, AC000052, AC005988, AC005089, AC004922, AP001042, AC002996, AC005081, AC005911, AL132712, AC005823, AP000248, AF205588, AL109984, AP000045, AC004921, AC006063, AC004794, AP000503, AC007899, AC005237, AC000003, AL133246, AC004652, AC005520, AC005822, AF134726, AC004996, AC005763, AC000353, AC006512, AP000556, U85196, AC004797, and AC005406.
HCVAC58	9150	1 - 337	15 - 351	AA292581, AA478127, AA978079, AA504702, W31736, AA636102, AA075369, AI927261, AA678950, AA298192, N22153, AW407632, AW073498, AI929410, AI753672, AA469441, AI750950, AA745302, AW057873, AA578621, AA847427, AA847508, AA662615, T03678, AI921619, Z98474, AA708651, R17935, AA076130, AA743299, N55076, H65911, AA467774, AA196412, Z98475, AI932871, AA834686, AA491985, AA748102, AI799421, AA282951, T59438, AA250776, AA856817, R48980, AI348467, AA302763, AA115865, AA488687, AA363957, N30016, AI569700, AA507993, AA524821, AI924954, AI908424, T86603, R53995, AI251024, AA065155, AA247477, AI453160, AI564294, AC007671, D83737, AC006962, AC006057, AC003013, Z96776, AC004611, Z99127, AC005663, AF155238, Z83840, AL049709, AC005664, U82671, AC007358, AL035405, AC006547, AL031659, AL121757, AC004825, Z79998, M33132, AC004185, AC006047, AL078611, AC000091, AC004656, AL049612, AC004992, AC004100, AP000509, Z98036, AC006064, AC005552, AC005081, AC002365, AC009294, D84394, Z69366, AP000228, AP000140, AP000088, AC006479, AF147446, AC005775, AC004466, AD000092, AF078847, AL133245, AL049698, AC007199, AL050321, AL031186, Z82243, AL049714, AL031732, AL021453, AL031276, AL031685, Z95115, AC004540, Z94277, AC004967, AC002119, AL049843, AC003025, AL031291, AC003982, AL034402, AC004518, AC004876, AC007283, AF165138, Z95115, AC004540, Z94277, AC004967,

HCVAC47	9151	1 - 326	15 - 340	AC007666, AF139813, AL022724, AC002094, AC007371, AC010206, AL022328, AC004158, AC009263, AL022323, AF196779, AC005358, AC004770, AL049780, AC004228, AC007055, AC000134, AC006312, AC005529, AC004962, Z83847, AC002550, AL078601, Z95152, Z98946, AC004821, AC006088, AC002546, U43572, X54486, M84472, AC004644, U34879, Y07848, AC005031, AF222685, AC005067, AL109657, AC005231, AL049757, Z93017, AF064859, AL080250, AC000026, AC004999, U80017, AC004883, AC007285, AL031311, AL034548, AC006197, AL034549, AL022164, AL021918, AC007688, AC002350, AL049553, AC007376, AF011889, AB011399, AC005261, Z75407, AL022320, AL050337, AC004477, AC007011, AF001552, AC004223, U85195, AE000658, AC004622, Z68884, AC007191, AC004241, AL049697, Z99943, AC002470, M22970, A64529, A64510, A64531, M29930, and D85429.
HCVAC45	9152	1 - 275	15 - 289	AW138257, and R52839.
HCVAC38	9153	1 - 307	15 - 321	AW364634, AA158320, AL046752, AF006515, and U91543.
HCVAC33	9154	1 - 318	15 - 332	
HCVAC26	9155	1 - 404	15 - 418	AI217108.
HCVAC21	9156	1 - 209	15 - 223	
HCVAC19	9157	1 - 319	15 - 333	
HCUIO06	9158	1 - 641	15 - 655	
HCUIM28	9159	1 - 417	15 - 431	AI004352, and AI249075.
HCUIK74	9160	1 - 723	15 - 737	W40368, and N93875.
HCUHY13	9161	1 - 374	15 - 388	T47291, and AI821037.
HCUHY10	9162	1 - 410	15 - 424	H94965, and AL031295.
HCUHU61	9163	1 - 381	15 - 395	AI002934, and AC007377.
HCUHU54	9164	1 - 355	15 - 369	R82557.
HCUHT92	9165	1 - 404	15 - 418	R06688, AF017104, and AC016831.
HCUHT74	9166	1 - 313	15 - 327	AA640094, AW188559, AW317075, AW238253, Z98885, Z83844, AC007686, AL008730, AP000501, Z95114, AF207550, AC004623, AC005089, AC005821, AC007773, AP000343, AL035461, AF001550, AP000556, AL022328, AL078611, AC005988, AF053356, Z97054, AP001067, AC009044, AC005921, AC005288, AC009336, AL031228, AP000354, AC007160, AC002477, AC002314, AL121915, AL121653, AC006449, AC009516, AC005519, AC005914, AL049712, AC005015, U96629, AL050318, U85195, AL035681, AE000658, AC005776, AL121603, U91321, AC007216, AC049757, AC004084, AC003007, AC020663, Z99716, AC005488, AC005409, AC004000, AL049757, AC005480, AL031670, AC007540, AC005099, U95742, Z84572, AC005829, AP000553, AC005632, AC005523, AL034417, AF001549, AL049872, AL031685, AL031281, AP000355,

HCUHT37	9167	575794	1 - 236	15 - 250	AL133163, AC004560, Z98884, AL031311, AL096791, AC006241, AF196779, AL024498, AL022721, AC002301, Z93017, AC005102, AC002059, AL035684, AC007934, AC004821, AC008124, AP000688, Z84466, AF205588, AL020997, Z96074, AC005081, AP000031, AC012085, AC006480, AC005786, AC002985, AL117337, AD000092, AC006958, AL049839, AL035659, AC004832, and AC004985.
HCUHT26	9168	681874	1 - 105	15 - 119	
HCUHT13	9169	657295	1 - 230	15 - 244	AI890348, AI754955, AA318822, AL134330, AW303196, AW301350, AI284640, AW440976, AW236342, AW274349, AI084012, AI267847, AW129001, AI569202, AA171513, AA491762, AI334443, AL138455, AI133164, AI291124, AI291268, AI061313, AI537030, AII44055, AL041690, AI370475, AI110770, W60516, F29989, AI610920, AL119691, AW301818, AI016000, AA601680, AI565245, AW440836, AL039958, AA932012, AI904894, AI053429, AI205126, AA557325, AL042756, AW272758, AA599141, AII33262, AA626678, AL037554, AA515224, AI054246, AI820539, AL041368, AA826303, AA569187, AII33636, AA366035, AA587604, AA569193, AI358229, AI345695, F19258, AW086257, AW406755, AW268300, M62249, AI299050, AI365988, AA558697, AA993198, AL120674, AI282336, AI053816, AA985357, AW406447, AW339687, AI307426, AL044940, AA581903, AI635272, AI049722, AA557879, AW074398, AA229785, AA743972, AII33636, AI281903, AW403720, AW196798, AA654968, N71724, AI251002, AW008212, T06828, AL120976, AL138265, AW361583, AI474085, H64777, AI433187, AI648558, AI962050, AA862173, AA639270, AA602069, AA501614, AI537556, AA340003, AA661948, AA916039, AI580652, AI859834, AI890923, AW440633, AI679782, AW249470, AI654529, AL118947, T39598, AW419262, AA503258, AI339850, H59023, AA665757, AA747480, AL040130, AA654627, AA515051, AW029038, AI929531, AA584145, AA179147, AA128592, AW193295, AI951436, F36273, AW166815, AI537185, AI830390, AI821356, AI246331, AA077223, AA488395, AI818620, AI053672, AW162049, AI654659, AA570416, AA308806, AI053469, AA663482, N27351, AI053489, AI254798, AI912322, AI754253, AW089789, AI921296, F33121, AA299115, AL040913, AA747375, AI287284, AI625244, AI917271, AA663306, AA317170, AA932099, H57849, AI471481, AA284179, AA665330, AA713815, AW410116, AI076616, AC004991, AF152365, AL031313, AC004695, AC077773, AC004990, AC003009, E01888, E02193, AF015152, L29074, AL117256, AC002545, AF178081, AC004743, AC005072, AF128525, AC005031, AC005288, AC003030, AC005520, AC004595, AC004913, AF129756, AC002456, U80017, S75201, M19045, Z93783, U91319, AC006130, M37551, X14008, AF006752, AL110150, AC006222, AP000251, AC008125, L35531, Y14768, U91327, AC006539, AC008122, AC006157, AC005165, AP000272, AC004859, A39972, AP000128, AP000206, AP000505, AC002077, U07562, AJ003147, AC006312, Z83840, AC004491, U73024, AC006362, AL049643, AP000030, AL031904, AL035699, U57009, AC005035, AP000245, AL031643, AC006581, AP000274, AC006597, AL080278, U67208,

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HCUHT03	9170	1 - 540	15 - 554	H55902, H61877, AA978266, AC005049, AC004143, AC007055, AP000553, AL049780, and AC003037.
HCUHS21	9171	1 - 488	15 - 502	T83209, and AL031985.
HCUHO27	9172	1 - 485	15 - 499	AW182457, AI922795, AA441989, AA974771, AA031704, AA976534, AA152220, AA045294, AA731356, AW292805, AW148422, AA810540, AI800594, AI305839, AI458862, AW052091, AI824266, AI302809, AA716336, AA448335, AI278475, AI769897, AA461046, AI307309, AA974453, AI474422, AA449267, AA058688, AW195361, AI735273, AI691016, AW055187, AI740946, AA160279, AI200257, AW272744, AA099553, AI597746, AI239461, AI199994, H93009, AW057512, AA088175, AI128201, H64964, AI824017, AI699923, AA045521, AI278932, AA582895, AA709030, AI361585, AI261533, AI373386, AI263085, AI671224, AI300367, R97096, AI628787, AW271301, AI149430, AA040431, AI707638, AI161128, AI091306, AA035209, AI758904, AI418284, AA411404, AA576365, N59386, AI741604, AI880867, F20467, H13276, AA502528, T96890, T97469, AA713812, AI933321, N47960, AA736644, AA502505, N49171, and AA502417.
HCUHO13	9173	1 - 1057	15 - 1071	AC003071, AC004462, L77570, AL049795, AC006543, AC004508, AC003043, AC008115, and AC006544.
HCUHK11	9174	1 - 423	15 - 437	AI207952, AA653238, AC003119, and U91325.

HCUHH95	9175	941943	1 - 2159	15 - 2173
				AW151541, AI521525, AW020150, AL041924, AL041375, AA904211, AI926102, H71678, AA703818, H77492, AA487569, AI299891, AI819419, AA525753, AW008184, F29968, AA809125, AA601712, AA489390, R99253, AI984168, AI473671, AA557945, AA226356, AI358928, AA420801, AW238341, AA669238, AA019973, AA831714, AW238712, AI753887, AW338035, AW338021, AA533660, AA523812, AA013168, AI434686, AA425283, N92588, AI338117, AI800426, N54538, AA814503, H59429, AI926706, AI344906, AW008217, AA636077, AA564256, AI266359, AI690379, AA714011, AI744963, AI537368, AW151247, AI086603, AI791659, AA533066, AI857834, R22196, AI912401, F23338, AI733856, AI682899, AL035977, AA595661, AI580260, H72947, AA639025, AA492298, AW238655, R44593, AA577706, AI446623, T74524, C06028, W60077, AA676592, N95424, AA829565, AI003988, H07953, AI475297, AI279417, AI936229, AA135761, AA846923, AL136295, AC005821, AL133353, L35532, AL096701, AC005971, AC006468, AL132642, AC006480, AC004771, AC005355, AC005476, AC004694, Z85987, AC005913, AL022327, AL031311, AL023575, AC005484, AC005913, Z84466, AC006328, AC002563, AC002314, AC003982, AF207550, AC003956, AL133243, AC005215, AC002492, AC005412, AC007064, Z83838, AC004656, U47924, AC016831, AL035086, AL035462, AP000156, AC005790, AC005529, Z98200, AC005911, AC004148, AC004112, Z93241, AC006208, AF196779, AF064857, AL031295, Z97989, AC003038, AP000157, Z81364, AC007376, AC006449, AC005947, AC005082, AL109613, AC015853, AC007546, Z82188, AC006132, AF001548, AF217403, AC005527, AC000378, Z98304, AP000552, AC004998, AP000117, AC007030, AL031276, AL008723, AC005514, AC004560, AC005014, AL109758, AC003688, AC005392, AC002476, Z93244, AJ003147, X55448, AC004765, Z94161, AC005740, AC007919, AC005534, AF196969, U78027, AC004032, AC004156, AC005067, AP000049, L44140, AC004605, AP000014, AB023050, AL031284, AP000511, AC005225, AL031681, AP000193, AC007686, AL021978, AC006006, AC007934, AC004382, AL021546, AL049759, U91321, Z98044, AC004938, AP000247, AC005781, Z83844, AC005255, AC006965, AC000025, AC004383, AP000116, AC003049, AC003041, AC006548, U63630, AC006597, AC004008, AL031602, Z93023, AC007283, AC005765, AC004448, AC008545, U62317, Z98036, AP000311, AC005602, AC007227, AC004887, AC007664, AL022238, AC002347, AJ229041, AL035587, AC005899, AC005081, Z84474, AL021918, AL035422, AC007707, Z95114, AL022330, AC007262, AC006236, AC004797, AC005004, AC000379, U89337, AC002357, AC005280, AC005193, AC008040, AL049856, AC004540, AP000240, AL121754, AC004890, Z86090, AL109984, AL049576, AL008715, AC005808, AC005013, AD000864, Z82178, AC006351, AC004801, AC004832, AC004975, AL022318, Z97056, AC007421, AC007051, AL035443, AC006163, AP000251, AC007242, AC010168, AC003690, AL021154, AC004881, AC007021, AL049709, AC005231, AC000095, AP000208, AP000130, AC002316, AC002312, AC004854, AC004650, AC003108, AL132992, AL035682, AC005940, AD000812, AC003950, AC004678, AC003043, AL022326,

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HCUHH04	9176	927500	1 - 617	15 - 631	
HCUHG67	9177	751673	1 - 746	15 - 760	AA234116, AW206772, AA234502, AW070295, AI274150, AA988179, AA729222, AA935521, AI382892, AA760987, AA989246, Z25141, AA728768, and AA812549.
HCUGT86	9178	784694	1 - 308	15 - 322	AI073478, AI247707, H54558, AI475033, AI084526, and AA861990.
HCUGS67	9179	751669	1 - 436	15 - 450	AA056567.
HCUGO07	9180	953412	1 - 305	15 - 319	AI719906, AA640632, and AI961282.
HCUGN19	9181	716989	1 - 584	15 - 598	R83518, H01355, R83503, AA204689, AI990886, AI660160, H45024, AI300806, AI969915, AI927423, AI457940, AI744631, AI928256, AI380503, AI867197, AW237763, AI800708, AI588959, AI765531, AW300271, AI830241, AI762594, AA828477, AW058189, AI871379, AI740633, AW301155, AA937166, AW316942, H44971, AA804639, AA535256, AW071230, R31122, R65687, H01309, H28671, AI829069, AA767789, AA953355, AW138552, AI870155, AI092045, and AA207090.
HCUGM93	9182	792329	1 - 313	15 - 327	N71632, AA826313, and AL034553.
HCUGM64	9183	745853	1 - 316	15 - 330	AA027349.
HCUGL20	9184	668913	1 - 445	15 - 459	R93212.
HCUGL01	9185	916550	1 - 150	15 - 164	AA835450, and AC006947.
HCUGK86	9186	785517	1 - 363	15 - 377	N88518, AA095359, AA096066, N84718, N83993, AA247827, N84048, N87989, N83168, AA247964, N84828, AF039698, U48696, and S78798.
HCUGK85	9187	783521	1 - 317	15 - 331	W92485, R92971, AA715876, AA063420, AP000098, AC005089, Z83846, AF001549, AD001527, AC005632, AL133163, AC016830, AC003982, AC003663, AC003072, AC005736, AC005291, AL021917, AC016027, AC005529, AC005225, AC004821, AC004890, AL035405, AL121653, AP000501, AL031295, AL031594, AF047825, AP000211, AC004797, AC004806, AC007308, Z93020, AL022721, AL096703, AC003043, AL031588, Z98742, AC005527, AC004491, AC005412, AC007421, AC005722, AC007637, AL031733, AL049869, AC005921, AL139054, AP000240, AC004019, AL035587, AC008101, AL021707, Z99716, AC006285, AC006480, AC003003, AL133245, AL035681, AL035665, AL117352, AL031281, AC005484, AC006115, AC008372, AC005520, AC005317, AC005519, AC004033, AC007686, AC005828, AC007227, and Z74739.
HCUGK78	9188	773601	1 - 215	15 - 229	AA493894, AI566408, AI124664, AA581263, AW084246, AA706291, AL037771, AA601376, AI369580, R10475, AI064918, AA858372, AA372949, AI591375, AW339622, AA736695, F08248, AI053911, AL040054, AA618452, F35374, AA557579, AI821608, AA069473,

| HCUGK64 | 9189 | 746604 | 1 - 205 | 15 - 219 | AA610413, AA468244, AA601674, AI962030, AW082117, AA306460, AI635245, F18070, AA831916, AA654661, AA653672, AA555241, AW274078, AA225406, AA569219, AA721645, AA191418, F12561, AI554471, AW440305, AL138455, AL036334, AA225358, H61926, H29511, AI925579, AI343144, AI287706, H82679, AA502991, AI244127, F13808, AW272294, AA807845, AA579407, AL119737, AA663201, AI814739, AA610381, AI343143, AL031657, AL035071, Z84469, AC004678, AC005907, AC006537, AC005037, Z82203, AC004878, AL008629, AC007387, AF196779, AL022323, AL031229, AC005378, AL021155, U91323, AF001549, U62293, AL022238, AP000152, AL078581, AC005057, AC006132, AP000305, AC004814, AF129756, AC006312, AC005363, AL022165, AC005011, U80017, AL132987, AL135744, U18271, AF124730, Z93023, AP000011, AC002990, AC005790, Z84480, AL022302, AC002565, AC005088, AC008115, AP000691, AL049692, AL035249, AF134726, AC004234, AC000066, AL022315, AL035659, Z98036, AC005360, AL133163, AC005071, AC005004, AC007226, AC006947, AL023879, AC004812, AP000047, AC007216, AC005086, AC005003, AC004876, AC005620, AC016025, AL022322, U95742, AL133448, AC006160, AL031228, AC005409, AC007546, AC007917, AC007390, AC005988, AL133371, AL031286, Z93017, U63721, AC002314, AJ010770, AC005513, AC002126, AC005231, AC005519, AC007685, AL035697, Z85986, AC000354, AL121655, AL049872, AC000353, AL035703, AC004686, AC005291, AL022313, AP000260, AC004584, AC003691, AC012085, AL049776, AL022320, AF109907, AC006365, Z84487, AC005207, AL109627, AC006450, AC004509, AC006543, AL121754, AC006509, AL078463, AC005484, AC004702, X69951, AC006071, AL009181, AL021917, AC005531, AC004883, AL032822, AL080243, AC005078, AC008372, AC004787, AC002551, AC003029, AL049795, AC006285, M30688, AC006480, Z95114, AC004662, AC006111, AL031985, AC004156, AD001527, AC008055, AC005081, AC004643, AP000115, AC005091, AL049733, AL031055, AC006388, AC011311, Z82190, AC002984, L78833, AC005972, AC005619, AF200465, AC006449, AC007999, AL050318, AC005839, U95740, AC005288, AC005736, AC004765, AC004522, AC004087, U47924, AL021154, AF217403, AC005778, AC004913, AP000116, Z93244, AP000036, AC006985, AC002425, AL035079, AL096701, AL022326, Z69917, AC005899, AC005668, AC006544, AP000065, AL034379, AC006571, AC005486, AF111168, AL035683, AP000962, AP000310, AC007199, AC006511, AL022721, AL034429, AC005600, AC007536, AC006064, AC002082, AC005043, AC004848, Z95116, AC005940, AL021546, AL049694, AC004796, AL034420, AC002477, AL121595, AC004975, AL035420, Z93783, AC005914, AC006538, AC008067, AL096791, AL035405, AC006210, AC007688, AC006137, AC005751, AC005823, AL035089, AJ003147, AL022336, AP000563, U50537, AL031311, AC005512, AC007114, AC005015, AC004125, L30117, AC010206, AL049869, AC004547, AL031282, AC004966, U52112, AC007488, AC004560, AC004236, AC005933, AC005913, and AC004531. |
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						Accession Numbers
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HCUGK54	9190	730709	1 - 118	15 - 132	AA484273, AA484304, AW338783, AA171478, H49471, AA650075, AF126483, AE000661, AP001052, Z84469, Z82248, AL035420, Y10826, AL132987, AC006111, AP000099, Z83322, AC002546, AP000036, Z82976, AC006026, AL080243, AL023575, AC003665, AC008040, Z68279, AF001549, AC002098, AC007685, AC002551, Z94044, AC005005, Z83838, AL021578, L44140, AC006344, AC003684, AP000260, and AC005273.
HCUGK51	9191	725013	1 - 307	15 - 321	AA658862, AI249473, AA629872, AW130335, AL047429, AI306232, AW274191, AA653854, AA831903, AI583466, AI251576, AI829831, AI911671, AI583252, AI188390, AA736557, AI307201, AI278678, AI570829, AI334818, AA872491, AA626432, AW084445, AW304580, AI635819, AI338386, AA613624, AA653139, AA224889, AA502991, AI890324, AI708009, AI358089, AA354822, N24133, AA715706, AI609972, AA814622, AA829036, AI612142, N33763, AA164684, AI623764, AA720732, AA776032, AW438539, AA167527, AA595661, F11718, N24793, U57009, U57005, U18398, AC004983, M87914, AL109798, S42653, U02532, AP000211, AP000133, AC020663, AF095901, Z82215, AC006285, AC005332, AC003041, AC005901, AJ003147, AC007731, AC006013, AC000070, AL109865, Z98051, AP000517, AC016025, AP000691, Z69706, AC005500, AC006077, AL031311, AC004702, AC007536, AC006509, AC006511, AL020993, AL109801, AL031295, AL049766, AC004491, AC006441, AB015355, AC005180, AC002352, AC007384, AC005914, AC002301, U50537, AC005231, U95742, AC004235, AC007216, AC002430, AC005696, AC007685, X53548, AC005225, M30688, AC005899, AF031078, Z82244, AP000555, AC004821, AC005387, AC007308, AC000052, AC005531, AC005067, AC003109, AC007136, AL035659, AC007066, Z97053, AC004000, AC005257, AL049872, AL035467, AC005190, AL023807, AC005399, Z82976, AC005726, AC005274, Z97876, AC005815, AC002425, AF053356, AL008721, AL035086, AL035450, AC006449, AC004020, D49558, AD000864, AJ011713, AP000432, AL031291, AL034429, AF015148, Z68756, AL022302, AF030876, AC002316, AC004234, Z82217, AC004583, AL035685, AL049758, AL031283, AL049576, AL096774, Z93020, U73024, AF001549, AP000558, U95740, AC005378, AC005355, AC005377, AC005746, AP000359, AL021453,

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HCUGK38	9192	706479	1 - 160	15 - 174	AA329625, AW270474, F03001, AP000355, AC008115, AF017104, Z84480, AC003025, AL049631, AC005531, AL109627, AC004228, AF139813, AC022517, AC005696, AC005412, U62293, U63721, AC002470, AC006088, AL110502, AL121653, AC004491, AC005065, AC006211, AC005911, AL035587, AP000045, AC002036, AC006571, AL133243, Z98742, AC002492, Z77249, AC005072, AF038458, AC005899, U91323, AL020993, AP000153, AP000032, Z85987, AC008040, AC005049, AL031432, AC006449, AC005602, AC004887, AL049793, AC002565, AP000356, AC004967, AL022313, AC003101, AF001548, AF053356, AC007130, AC003969, AC006529, and AC006515.
HCUGK25	9193	678130	1 - 152	15 - 166	AA661921, AL043289, AA401240, AII33297, AA613591, N71746, AA404287, AA482711, AII74766, AA063173, AW275510, AW301995, AW303002, AA834707, AA702729, AA747070, AI284640, H23653, AI345366, AI310873, AW163293, AL042753, F36306, T25806, AL036037, AW075511, H71429, AA129746, AW268757, AA101689, AI368745, AA493695, AW084466, AW021735, AI821494, AL038606, AL037683, AI064952, AA483929, AI349817, AI805363, AI963720, AA809479, AL135377, AW023990, AA455670, AI583283, AI270117, AA513893, AA127426, AA618452, AW268954, AW270343, AA493975, AI345157, AL138455, AA490183, AA299189, AA669155, AW021597, H42271, AA630672, AW021207, AA584805, AA602047, AI345827, AI818231, AA047715, AI254654, AA579179, AA847499, AI027459, AI821918, AL045808, AL046156, AA758366, AI687343, AI821881, AA984801, AA757775, AL046746, AC005740, AL022721, AB023798, Z94801, L34079, Z83844, AL133448, AL078581, AL035587, AC005778, AC007382, AC008044, AL121603, AL022329, AL096701, AC004030, AF111168, AJ010770, AC004195, AP001052, AC008080, L44140, AC005261, Z83845, AC002470, AF205588, AC005548, AL109758, AC004623, AC004883, D87008, AF114156, AF111167, X06123, AC006112, AF039906, AJ003147, AL021977, AC007193, AC007130, AC004881, AL021155, AC004865, AL135744, AC002070, AL049871, AL022323, AL031670, Z82198, AC005696, AL133241, AC002527, AC002425, AC005234, AC006466, D88268, X68090, AC005280, AL117355, AC006581, AL121654, AL008726, D83989, AC005164, AC002455, AC007308, AC005971, AL049552, AC000003, AL031295, AC020663, AF126531, AC004890, AC003070, AC005907, AL049825, AC009516, AC004150, AC002350, X61109, AC005776, AC003070, AC005567, AF129756, AB020865, U67229, AP000555, AC002073, AL033543,

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HCUGK18	9194	1 - 285	15 - 299	Z82206.
HCUGK17	9195	1 - 296	15 - 310	AA167506, AA745302, AC005102, AC004851, AC006449, AL031848, Z98884, AC005005, AC005412, AL121754, and AL035458.
HCUGK14	9196	1 - 269	15 - 283	AW044407.
HCUGK05	9197	1 - 203	15 - 217	AW409621, AW409626, AC006123, AL022396, AC007536, AP000557, AC005736, AC003104, AC002132, AC004955, AL008582, AC004797, AP000556, AF006752, AC007386, AC005280, and Z82901.
HCUGI64	9198	1 - 347	15 - 361	AI345695, AW236342, AA704561, R13151, AI061313, AA745653, AW338508, AI633168, AA838140, AA281461, AI246796, AW157005, AI028510, AA134669, AI291124, AI291268, AI537030, AA992126, AI302994, T07287, T16427, AA182569, AA772016, AI354243, AA262139, AA570632, AA179752, AA100540, AI473851, AW105737, AA284184, AA189069, W47444, T75029, F37052, AA657835, AI341548, F23327, AI088717, AW380074, AA747889, AA743811, AL135405, AI051037, AA528725, F19012, AC006480, AC005531, AI021977, AC005280, AC005102, AL021154, AC005046, AC005839, AL132777, AC005523, AC004099, AL031577, AL096791, AF205588, AC002059, AL109984, AC004953, AC006132, AC016027, AC005821, AF038458, AL121655, AC004447, AC004638, AF196970, AL023553, AC016830, AL049743, AC004019, AC005785, AL031597, AI049869, AC005015, AC006441, AC005412, AC004750, AC007193, AC007666, AL022336, Z84487, AF196779, AF109907, AC000070, AC006211, AL035249, AC005225, Z98036, AC005081, AL031311, AL022311, AL008723, AC005519, L44140, AC004134, AC007878, AC000052, AC007055, AF207550, AL021397,

	9199	775206	1 - 265	15 - 279	Z75744, AC000026, Z83840, AC004854, AL049712, AC009516, AL050318, AL121653, AC004477, AC006505, Z83826, AC005330, AP000046, AP000114, AC002045, AC003982, AC006026, AC006251, AF001548, AC006312, AC003101, AC002314, AC000353, AC003007, AF053356, AC007041, AC004856, AL021453, AP000345, AC006449, AC005914, AP000513, Z95114, AL117258, AC005940, AP000512, AC006001, AL109758, AL020997, AC004067, AC002312, AC005261, AL035659, AC004616, Z83844, AC005288, AC004150, AL022721, AL034420, AC006270, AL078593, AL031594, AC008101, AC004492, AC004167, AC004605, AC007676, AC007384, AC005565, AF111168, AC004032, AC004955, AJ246003, AC007358, AF190465, Z83822, AC002994, AC006509, AL079342, AC004526, AC006571, AP000036, Z92542, AC004596, Z94044, AC004841, AC006930, AL110114, AC004382, AL009181, AC006050, AL133485, AC005520, AC002350, U07000, AC004805, AL021155, AP000952, AC005088, AP000193, AP000045, AP000113, AC006014, AC002544, AL021546, U91321, AC004821, AF111169, AC007192, AC004967, Z82244, AC005924, U91326, AC005324, AL049776, AP000350, AC004125, AC004797, Z99716, U95742, AC005920, AL096703, AC004883, AC004236, AL078596, AF045555, AL034548, AC007226, AC005666, AP000503, AC002091, AC006064, AB023054, AC007450, Z68756, AC005071, AC007191, AL049653, AC006538, AL096701, AC005488, AC000379, AC005484, AL021937, AC005944, AC007011, AC007664, AF064861, D87675, AC004662, Z84469, AP000305, AL022320, AC005089, AC002472, AC003104, AL049569, AB003151, AC005837, AL121825, AC007395, AF001549, AL133245, AC005696, AL022476, AC005067, AL049780, AC009399, AC000003, AC006057, AC007993, AC003684, AC005331, M63543, AC007151, AC004922, AL121754, AC005200, AC004151, AC005480, AC005355, AL034343, AC006948, AL049830, AC003973, AL031295, AL022315, AL008718, AL121769, AL049745, AC004966, Z98743, and AC007637.

(The clone/row labels appear in the left margin of the table:)

Clone	Seq No.	Range 1	Range 2
HCUGH79	9199	1 - 265	15 - 279
HCUGH64	9200	1 - 198	15 - 212
HCUGH52	9201	1 - 268	15 - 282
HCUGH44	9202	1 - 46	15 - 60

Accession lists:

9199 / 15 - 279 (continued): AC005082, U91326, AL121652, AC002544, AC007546, AL049576, AP000129, AF111168, and AC002527.

9200 / HCUGH64: AA287351, AA501902, AI669116, AI085242, AC004596, Z84484, AC004257, AC004876, AC007263, AC008134, AC005756, AC004598, AL023553, AC013256, AL008730, AC002312, AP000499, Z98044, Z93023, AC002470, Z98884, AC006285, AF205588, AL031589, AL132987, AL049540, AC004963, AC005041, AL022316, AC007845, AC016025, AC006539, AB026898, AC004938, AC005323, AC005565, AC006487, AC004087, AL121655, AC016026, AL034549, AC005231, AC006511, AL031733, AD000812, U65487, AC004922, AC002126, AC002352, AC005015, AL022722, M23282, and AC006064.

9201 / HCUGH52: H85104.

9202 / HCUGH44: AL121385, AW118338, AL039145, AL039007, AW089101, AW263724, AI474221, AL135357, AW087356, AA303007, AA504818, AA774222, AA761028, AII24610, T60156, H04977, AL040653, R95139, AI630176, AA847952, AL046519, AI476089, N73872, AA843628, AA457425, AA834665, R34062, AI333016, AL038072, AF112484, AP000276, AP000275, AP000105, AP000037,

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HCUGH42	9203	713782	1 - 304	15 - 318
				AA084609, AA489390, AI801563, N27340, AI049999, AI061313, AA502991, N38991, AA199578, AI267356, AI267450, AA693484, AA778580, AI590404, AI749823, AA846923, AI285651, N27737, AA679794, H62123, AI355246, AA570740, AA483606, AI678468, AC005071, AC007686, AC004851, AF207550, AC000025, AL049694, AC004024, AI021707, AL031255, AL022336, AC005519, AC005911, AC004408, AC002477, AC006211, AC002126, AL035422, AC005519, AC005911, AC004099, AC005081, AC007201, AL049766, U78027, Z93783, AC006441, AC004098, AL109984, AC020663, AL021453, AC004531, AP000553, AC005253, AC004098, AC005527, AC002565, AC005013, AC007687, AL031291, AL033527, AP000558, AC005839, AL049795, U91326, AC006050, AC007842, AC006449, AC005779, AC004962, AC005594, AC005207, AC005280, AC000353, AC016830, AC004686, AC009247,

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HCUGD30	9204	850041	1 - 450	15 - 464	AA243882, AA243875, AA604094, T96337, and T93503.
HCUGC25	9205	464029	1 - 431	15 - 445	F33795, N44137, H57810, AI143242, W79504, AA720702, AI262909, AI937850, AI537955, T06828, R97780, AA720758, AA578997, AA347368, AW088058, AI434695, AI364809, AA862173, AA661948, AA665021, AW276435, F03525, AI282336, AI357551, AI446464, F10924, F16274, F18638, AI053790, AA665330, AA405453, T40077, AA502720, AA837740, AA626404, N64279, AA744031, AF150152, AW276586, AI623898, AI266133, AA503119, AL038705, W47183, AA340747, AI583594, AW008317, AA773733, R94721, AA338486, AA367986, AI300167, AW406447, AI798266, AL138265, AI357288, AA649642, AA513972, AI281903, AI133164, AI284640, AW072923, AL048925, AA483731, AA973803, AW419262, AA330575, AI270248, AW021583, AA451612, AA583955, AA441788, AA856848, F17891, AW250970, AA579736, AA079101, AI921541, AI697208, AA350859, AA610491, AA729721, AI281881, AA599920, AW193432, AI924251, AW193265, AI064864, AI688846, AA480772, AI471481, AA548511, AA347034, AA343007, AI061334, AL119984, AA837351, AA551356, AW340844, AA806796, AI499938, AW151727, H95681, AI350211, AA747777, AA568778, AW265393, AI270117, AA825357, AA649705, AA468022, AA664015, N92703, AW072587, AA576336, AA708352, AI344844, AI053672, AA828042, AA584637, AW008450,

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HCUGB93	9206	850043	1 - 434	15 - 448	AC005343, AC005076, AL031277, U73649, AC005342, AL031670, AL035551, AL031848, AC016027, Z99129, AP000705, AC006254, AL031584, AC005046, U58675, AF128846, AF128847, AC007685, AC004745, AC016830, AL078476, AC007050, AL109938, Z94056, AL136363, AL031228, and AL034420.
HCUGB58	9207	736092	1 - 99	15 - 113	AC004020. AW263724, AI254913, AA478355, AW089101, AL135357, AI791913, AI792133, AI821714, AA219018, AW074913, AA502538, AI445088, AI469577, AA858372, AA493894, W01985, AI866487, AI470646, AA364453, AA526331, AW410354, AW023149, AW081871, AI273012, AI818737, AW084246, W03286, AI559705, AA693688, AI821785, AI751216, AA018823, AA547947, AI343148, AL134988, AI590485, AA846952, AI333016, AI560085, H18354, AI732547, AA953238, H23653, AW384990, AA767412, AL134439, AI969436, AI783581, AI309375, AL119691, AA587604, AA526630, AI859946, AW088846, AI343233, AI382825, AI819140, AA582073, AA714110, AA937427, AL042853, R44116, AL134275, AI696962, AA449997, AI798473, AA468022, AW087356, AA326372, AI452726, N52358, AA584733, AA587509, AW275666, AW265393, U69194, AI025864, AW080811, AI630176, AA781669, AA303007, AW103758, AL039145, AI932599, AI572924, AI002941, AA654781, AF034184, M77933, AA701080, AL030997, AC000090, Z86090, AC007308, AC005874, AF134471, AL035420, AL021918, AC004796, AC004797, AC002470, AC007226, AL121877, AC005829, Z93023, AC004878, AC005209, AC003043, AC005933, AC005057, AC004673, AC000080, U72790, AC004975, AP000505, AP000210, AP000132, Z81369, AP000248, AL079295, AC004985, AC004966, AC004033, AL050341, AL023803, AL008718, AC004686, AC007041, AL049576, AL022165, U52111, AC005500, AP000354, AC005071, AF129756, AL034418, AC002314, AC004895, AC005994, AL049377, L35667, AF135187, AC005612, AL109798, AL035530, AL049844, Z82215, AC009028, AC010206, AC007156, Z97054, AL035067, AL035400, AC007690, AC004900, AL021391, Z83846, AC007686, AC003986, AC007537, AL022721, Z82198, Z99716, AC007056, AC004755, Z97056, AC004646, AC005538, AP001037, AC004024, AC005257, AC003104, AC004232, AC005245, U73636, AF152365, AL022322, AL031657, Z98752, AL022578, Y14768, AL034548, AL021026, Z94721, AC004685, AF038458, AC004865, AC005393, AL022313, AC006254, Z94056, AC002350, AC006581, AC004456, Z99570, AL022336, AJ006996, AC004051, U89335, AL078585, AC007676, AF091544, AC006597, AC005088, AC007199, AC009743, AC002559, Z83844, AL050311, AC005479, AL121595, AC003101, AC007993, AL049301, AP000141, AC002115, AC005412, AC003692, AC003112, Z68323, AL022318, AB023048, AC004605, AD000812, M59199, AC007055, AC005998, AF170813, AP001054, AC005952, AL031055, AL031730, AL035691, AP000390, AC005067, AL049550, AC007242, AL096843, AC005682, AC005411, AC007371, AC005939, AF191069, AC004520, AL021393, AF096876, AL031291, Z84484, AC009247, AC004499, AL031672, U91326, AL024507, AC004000, AC002040, AC005354, AP000088, AL109952,

HCUGB37	9208	1 - 194	15 - 208	AC004552, U95742, AC004881, AC005969, AC008033, AL109967, AL109654, AC002543, AP000257, AC006511, AC005037, AC005486, Z69706, AC005971, U40369, AF165926, AP000493, AF199339, AL020994, AL021937, AC000029, AC003102, AL050308, AC005332, AC007731, AL121825, AC005668, AC005253, AL033392, AC004263, AC002984, AP000656, AC005391, AC005379, AL096761, AL049776, AC008055, AC005846, Z94277, AC005632, AC005011, AF001549, AL031575, AP000230, AC005274, AC004799, AE000659, AC004854, AP000042, AP000110, AB020862, AP000144, AL121655, Z97876, AC005899, AP000348, AC006146, U63313, AC004242, AF003626, AC004969, AC006077, AC007934, AL021155, AC002126, AC000025, AC005527, AL023807, AC005015, AC005529, AB023051, AJ246003, AC004002, and AL109807.
HCUGB22	9209	1 - 339	15 - 353	AI274773, AL044966, AA642918, R99617, and AC005822.
HCUGB20	9210	1 - 314	15 - 328	AI741850, AA595206, AA720782, AA081138, AA668973, R08918, R09410, AI261358, Z93023, AC004491, AL031255, AC007308, AC005702, AP000502, AC005089, U85195, Z83844, AE000658, AC006441, AC004596, AC005568, AC002310, AC005874, AF134471, AC006254, AL133445, U91323, AC005102, AC005057, AC004837, U91321, Z98044, AC004893, AC004813, AL049830, AP000555, AC004895, AC006449, AF196969, Z84466, AC005412, AC004531, AC011331, AC005031, AL022324, AC004167, AC002470, AC005841, Z98050, AC006013, AC006141, AC004777, AC008040, AB000882, AC007676, AC004686, AF049895, Z82195, AP000501, AC000353, U95739, U80017, AC007298, AL109758, AC006252, AL132992, AC006285, AC004031, AL034548, AF111167, AC005330, AC007786, AL049569, AL009181, AL031447, Z47046, AC005231, AC004638, AB026898, AC005071, AC000026, AL049795, AC004242, AC005921, AC005081, AL096791, AC007546, AC002551, AC005678, AF053356, AF031078, AL021578, AL031589, AC004087, AF196779, AC005086, AC003684, AC006238, AL132712, AC002472, AD000091, AF030876, AC005971, Z95115, U47924, AC006277, AL033392, Z85986, AP000355, AP001067, AC006480, AC004882, AC004927, AF129756, AC007664, AL023553, AC006071, AP000116, AP000049, AC006084, AC002059, AC003077, AL031283, AC006537, AL031775, AL049761, AF111168, Y10196, AC005072, AC004963, AP000493, AC004526, AC004612, AL031289, AP000311, AC007216, AL031003, AL049570, AC005696, and AC005049.
HCUGB14	9211	1 - 363	15 - 377	AI251002, AI205126, AA515435, AA886584, H64777, AW243698, AW088202, AI929531, T08438, AI358571, AI446464, AW029038, AA634146, AA348929, AW162049, AL038785, F36273, AI962050, AW166815, AA229785, AA729721, AI133636, AA826303, AI339850, AI904894, AI567674, AA713815, AI917271, AI469003, AI625244, AA669416, AI890923, AI281881, AL046409, AI679782, AW440836, AL120674, F17761, C05755, AI608626, AA483068, AA350859, AI064864, AW276827, AA347368, AL119391, C06327, AI754955, AI083946, U51696, AI866956, AI083998, AI309740, AI081095, AF150152, AI918421, AA719080,

HCUFY79	9212	494008	1 - 551	15 - 565	AA828704, AA64207, AA837084, AI357796, AI281697, AA657533, AW161752, AW162570, AI608966, W79504, AI744827, R91159, T06828, AI279873, S75337, Z98754, U14698, U14695, U14705, U14700, U14685, U14686, U14699, U14710, U14707, U14702, M87916, U14701, U14691, U14704, U14684, U14688, U14689, Z73986, AP000115, U14690, AC004383, AC006511, AL009051, AC007056, AF064865, AC002563, AC010722, AF053356, AC005037, AC006130, U14694, AL132718, AC005914, AC009731, AC002067, AC005661, AC008585, AC005332, AC004542, AL031846, AC004921, AC002477, AC004638, AB019438, AP000473, AL132712, AC000052, AL049830, AC005081, AC002059, AL022395, AC006352, AC007917, Z99758, AC004019, AL049709, AF107258, AC004506, AP000045, A39972, AC007284, AC005821, Z98255, U66059, AL035089, AC007666, AF111168, AP000553, AC005913, AC006374, AC005999, AL050305, AL121748, AP001053, AP000497, AC010197, AF196779, AF064857, AC005084, AC007617, AC004890, AL031054, AC006449, AC006315, AL049835, U47924, AC007542, U12580, AP000047, AC005066, AC005837, AC003088, AF015169, AF015167, AF015166, AL050348, AF015162, AF015158, AF015170, U12583, AP000275, AC006285, AF015156, U12584, U12582, AL049775, AF050154, AC003101, AL035415, AP000037, AP000105, and AC005324. H47368, AW028376, AI468993, AW243945, AI921744, AI221027, AI567676, AA365049, T03613, AW273201, AW273146, AI002863, AI572680, AA657834, AW243817, AI885134, AW407007, AI370470, AA557945, H86399, AI312614, AA125758, AI308529, AA873661, AI274006, AA230221, AA362440, H47461, AA569220, AI884404, AI889177, AI567831, AA778580, AI031759, AA947352, AI003086, AA421536, AI434103, AI445768, AA640563, AA586553, AA749196, AA353081, AI281622, AI708108, AL044966, F26395, AI802268, N35135, AI376687, T06339, AI538404, R79396, AI889648, AI613487, AA935827, AI279693, AA832108, AI336206, AA364082, AW029574, AI921692, AA774119, AW337483, AA578711, AI745666, H53109, AI734076, AA657808, AI640905, AI732102, AI732101, N23099, AA664924, AA772818, AI734075, AA587835, R06030, AI567391, F32823, AA368329, AI054090, AA648605, R64110, AI571094, AI298021, AL036536, AA599532, AA015948, AW089524, AW029626, AA297789, AA809546, H49253, AI683120, AI888050, AI251024, AI559720, AA847341, AI254770, AI284543, AA936099, AA593168, AA991640, AA351893, AI307563, R67038, AA829003, AA507990, AA219166, AI732911, H91672, F25759, AA584360, AI816058, AA385094, AI150934, AA662614, AA525156, H51612, N49298, AA353957, AA230024, AA339932, AW151523, H83899, AW020682, AA600863, AA975894, AA768179, AA610644, AA835702, AI570067, AI249853, AL038533, T16147, AI760850, AA112864, AI167715, AI065031, AI246061, AI668566, AA225566, AA225494, AA362439, F31811, AA196287, AA078754, AA368659, AA513916, AA467740, AA832104, AL049843, AB033024, Z82198, AL133448, AC006241, AL050307, AC004749, AC004130, AL109847, AL031680, AC002991, AL022146, AC007421, AC005015, Z69364, AC005694, AC004753, AC005574, AC005566,

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HCUFW09	9214	625658	1 - 188	15 - 202	AC004813, Z99128, AC006011, AL008629, AC002307, AL031275, AC005753, Z84469, AC020663, AC002064, AC002429, AL121658, AL096791, AC000003, and AC005520.
					T92360, and AC005071.
HCUFT37	9215	706467	1 - 419	15 - 433	AW445217, AA022880, AI928545, AW027901, AI290104, AI830526, AI820978, AW152451, AA015749, AA226104, AA226109, AW301855, T58513, AA506744, R99597, W32993, AW151870, T34558, AA487829, AI567676, AA757646, AI581006, T48770, AI174701, AI791408, AI791720, AW162762, AA354695, F35789, AI500315, T69899, AA653291, AA551030, T47138, AW262716, AW167202, AA847341, AA668421, AI884404, H37892, AA354677, AI821945, AI282330, AW148821, AI251024, AA809104, AI018726, N70293, AA300049, AI445699, R10144, AA147521, AL047405, AI702049, AI002952, AW265468, N78600, AA078225, AL138262, AW192930, AA757406, AL121039, AA621720, AW157128, AI918661, AA494047, AW410844, N53448, AA180857, H77666, AI064968, AI760850, AW162314, AL038533, AW162332, AI049999, M77964, C15811, AI538404, AA225519, AI744890, AA172103, AA349923, AA362440, AW407007, AA524846, R93823, AW262946, T59738, F09745, AW157173, AI459879, T59624, AW274180, AL031577, AC005280, Z82193, AC005203, AC006111, AL022476, AC004150, AC004383, AF124523, AF118808, AC004051, A65971, L81868, AC000094, AC000085, AC005877, AC006974, AC005058, AL022331, AP000280, AC004816, AP000107, AC007041, AL008719, AC002997, AD001502, AL035455, AE000660, AL109982, Z94056, AC002420, AL021918, AC002997, AC005225, AC007421, AL022315, AC005746, AL049569, AC007367, Z94865, AF007876, AC004671, Z98946, AL031602, AC004007, AF196972, AC005670, AL020997, AC007030, AC006121, AC005839, Z85987, AC004771, AC004797, AL032821, AC005231, AC005411, AC006121, AC006130, AP000503, AC005089, AF134726, AC007298, Z69375, AL031321, AB017602, AC006130, AP000967, AF064861, AC004861, AC004966, AL133163, AF107885, AL049776, AC002984, U73634, AP000967, AF111167, AC002350, AP000349, AC005005, AC002472, AP000350, AC007664, AF124730, AC007686, AL022238, AL035681, AC008072, AC005179, Z98048, AC005519, AC009248, AC007058, U45945, AC006261, M81181, AC005752, AC004920, Z95115, AF047825, AP001053, AC007016, AJ246003, X69907, Z73979, AC004814, AC005300, AL049766, AL133445, AC007225, AF001550, AC006581, AP000300, M60806, AF165926, AP000693, AC006946, AC005320, AC002401, AL034429, L78833, AC005878, AC005821, U51561, AC000115, AC005354, AC004753, AC005239, U62317, AL121658, AL117258, AC002449, AC004686, AC004648, AC005159, AL049709, AL096801, AC005695, AP000045, AP000113, AL022165, AL022396, Z73360, AC004475, AP000558, AC002551, AL031683, AF200465, AC002045, AC004812, AP000557, AC002395, AC009516, AL137442, AC005531, AL132992, AC006367, AC006006, AL020993, AC005049, AP000952, AC002477, Z68284, U07562, AC003030, AC004409, AC005808, AC004079, AC004685, AL009179, AC020663, and AC004841.

HCUFQ08	9216	959567	1 - 444	15 - 458	AA555097.
HCUFP11	9217	967155	1 - 361	15 - 375	AL037324, and W87497.
HCUFO96	9218	796434	1 - 383	15 - 397	AW302013, AL046409, AI610159, AL138265, AI284640, AI963720, AI568678, AI334443, AW169537, AI754955, AA623002, AW193265, AI431303, AW276827, AI350211, AW438643, AI904894, AI345654, AI085719, AII10770, AI613280, AA610491, AA469451, AL046205, AI270117, AI432270, AI305766, AW419262, AI289067, AW276435, AL037683, AI340453, AI688846, AL138455, AI859742, AW072587, AI708009, AA577906, AI471481, AW338500, AI341664, AW193432, AI499503, AI053672, AI951889, AL042420, AI801591, AI434695, AL048925, AA581903, AI312309, AL137954, AI379719, AI951928, AW238278, AI287528, AI590958, AW088846, AI754658, AW406755, AI619997, AI865905, AA758934, AI375710, AI559705, AI061334, AL040382, AI590689, AA857486, AA977743, AI358343, AI580652, AA916371, AA780515, AI969436, AI246119, AI064864, AI890570, AI890928, AI345518, AA490183, AA491814, AW085794, AI143242, AI559251, AI298710, AA587256, AA679672, H70615, AI564496, AA569471, AW148792, AA523688, AI446464, AI467919, AA488395, AI669453, AI344844, AI357288, AI473943, AI472222, AI674873, AI801600, AI365988, AI305547, AI358571, AI345157, AI249997, AI798473, AA872067, AI692808, AI355224, AA178953, AA192740, AA680243, AI589461, AL079645, AA084070, AI928898, AW406162, AA630030, AW008952, F32808, AL044858, AI358229, AA350859, AW067900, AI282832, AW410400, AI625647, AI091495, AI281697, AL044940, AI955323, AI017024, AI653886, AI038833, AA632624, AA302648, AI357551, AI307201, F29989, AA610493, AL120269, AA621858, AA877817, AL041706, AI499054, AA669840, AA569284, AI371070, AL138421, AL049871, AC002492, U66059, AL031257, I51997, U18396, AF077058, D83989, AF015149, AF009660, A39972, U18391, U18395, AC004893, AC005161, AP000552, AC002467, AC005899, AC009516, U18394, U57009, U18398, AC005330, X55925, AC005015, X54175, AC006160, X54181, AC004675, AC004019, AC004382, X55926, AC007216, X55923, AC005837, U18393, AC005881, AL049643, AC004019, AC004675, AF015151, AC000052, X54180, AL033397, AL050321, AC002310, AL008715, X54178, Z98884, AF015151, AC000052, X54180, AL033397, AL050321, AC000072, AC005071, AC005696, X76629, Z49816, AF067844, X75335, AC004448, AC002527, U57005, U57008, AF205588, AC005598, AC004388, AC004992, AC004554, AC006079, AC002347, X55932, U18392, X54176, AL031774, AC006576, AC004596, AF134726, AC002558, AC004030, U57006, AL022329, AC004673, AC005839, AC016830, AC006543, U95742, U18399, AL031577, AC007774, AC005251, AC005808, X53550, U57004, AC002564, U18390, AC004970, AL008627, AL049562, L77569, AC005066, Z99129, AF015148, AL133396, AL049856, U57007, AC006480, AP000503, U47924, AC003002, AC006989, AL035448, AC005011, AC005250, AF015147, AL049647, AC003002, AC006989, AC004808, AC004933, AF085444, AF015157, AP000127, AP000205, U85195, L81648, AC007688, U18387, AC005295, M37551, AF015150, AC008009, AC006509, AL023882, AC002094, AE000658, U02531, AC005531, AC004028,

HCUFO93	9219	792376	1 - 348	15 - 362	AC008168, U67231, AJ011930, AC008101, AC002456, X55931, X55924, AC005765, AC004690, AL096791, AC004381, Z75888, AL031447, AC006384, AL121603, AL049833, AC004638, Z96074, U67221, Z82180, Z69706, X55922, AP000474, AC016027, AC007317, AC002377, AC004691, AL137100, Z75887, AL117258, X53548, AP000501, X88791, AC004894, AJ006998, Z99716, AC005815, AC007666, AL021453, AL034449, AF001549, AF015723, M13254, AC004962, AL031391, Z82210, AC000111, AL049845, AC004648, AC004000, AC005002, AL096829, AL133399, AC005154, AC007055, AC003977, AC004210, AC005046, AF015153, AL132987, AC020663, AC002542, AF207550, AL033543, AC007298, AP000473, AC002984, AF227510, AC009069, AC002429, AC006571, AL035688, Z86061, AC007043, AL096861, AL049761, AC004987, AC007363, AL050318, Z85986, AC004038, AC005822, AL031446, AC005694, AC004453, AF047825, AC007825, AL096701, K03021, Y18000, AL121578, AL035541, AC008115, AL121591, AC000003, D84394, AP000508, AC003085, AC006251, AC006597, AC005081, AC004220, U67233, AC002395, AC005242, AC006946, AC005484, AP000275, AC007226, AC005527, AC005060, and AC006128. AA501508, AI914747, AI223948, H50970, AW021083, AI345780, AI174876, AA516164, AA230251, AI369580, N77109, AA835854, AC002472, AC003982, U96629, AC007664, AC004967, U91323, AC006547, AC002054, AC005274, AC004099, AC008018, AC007546, AP000553, AC003101, Z98884, AP001051, AF053356, AL020997, AC006141, AC005821, AF095901, Z98743, AC004590, AC005225, AL022336, AC004876, AC005952, AC004671, AF196969, Z95115, AC004895, AL035071, AC004382, AC000097, AC005105, AC004882, AC005972, AF196969, Z95115, AC004707, AC007225, AC000353, Z95331, AC007036, AC002551, AC004887, AL139054, AL035685, AC006536, AL035455, Z77249, AF121781, AL049872, Z97054, AC005800, AC005015, AC005899, AL022320, AC004985, AL049540, AC005414, AC005971, Z83822, Z93023, AC016026, AC004787, AC005822, AC005912, AF001549, AC004685, AF086284, AC004963, AC005488, AC004966, Z85986, AC005529, AC002365, AC006057, AC002511, AC005914, AL023807, AC005932, AL034420, AL031230, AC004983, AC005037, AC005520, AC005231, AC006088, AC004253, AC006084, AC007565, AC005531, AC004491, AC005387, AL049569, AC007216, AC005756, AC002302, AC007938, AC004841, AC002352, AC005089, AC005193, AL133445, AC003109, AL031657, AC005874, AF134471, AL021154, U91318, AF227510, AL049709, AL096791, AC000159, Z84466, Z95113, AC005049, AC005740, AC004031, AC007055, AC003003, AF111168, AC006026, AL109984, AC002126, AC012083, AC004453, AL049874, AC005486, AC005764, AC004383, AP000555, AF196779, AC004883, AP000499, AC006538, AC005622, and AL009181.
HCUFO68	9220	753083	1 - 358	15 - 372	AI570261, AA491814, AI963720, AW088202, AI568678, AW029038, AW438643, AL138265, AA482711, AI962050, AW193265, AI679782, AW303196, AW274349, AI284640, AI610159, AI350211, AI431303, AW301350, AA806796, AA652764, AI358229, AL046409, AI613280,

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AL119691, AI270117, AI355206, AW023672, AL048925, AI281881, AA469451, AI376100,
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AI801600, AI589230, AA623002, AA522942, AI828208, AL044858, T54866, AW276827,
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F36273, AI688846, AW265385, AI761471, AI654525, AW193432, AA649642, AI053790,
AI341664, AA533725, AA491284, AW338086, AI951863, AI559251, AI625244, W05405,
AW129001, AA714453, AI375710, AI969436, AI143242, AI357551, F32808, AI357288,
AL041690, AI370878, AA984708, AI801591, AW304584, AI635818, AI890348, AW270270,
AA521399, AI286356, AA521323, AL037683, AW265393, AI246119, AI053672, AA669840,
AA177061, N30848, AI697208, AA523815, AA594145, AA583955, AA661948, AA577906,
AA468131, AL042420, AI754336, AI860020, AI151261, AW273218, AA312845, AI796627,
AI345518, AW118338, AI457397, AL121385, AA569471, AL118991, AI298710, F28204,
AI472222, AI379719, AW131249, AW419262, AI696962, AI358571, AA493471, AI951889,
AA525824, AI888518, AL046898, AA507824, AI471487, AI471572, AI564185, AI692808,
AA346458, AA621858, AI589461, AA610493, AA847985, AA846876, AI345681, AI345675,
AI085719, AI133102, C06339, AA528706, AW410400, AI745325, AI951928, AI281697,
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AA680243, AI499938, AI732186, AA601876, AA709005, AW148792, AI561255, AI890570,
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AF015149, AC005907, AL121591, AL050318, U91318, X54179, X55926, X54180, X55931,
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AC004825, M63543, X55923, M27161, U18398, X55924, AC004087, AL031311, AC004029, AJ225084, M63544,
AC006315, AF015150, X76629, AC004087, AL031311, AC004029, AJ225084, M63544,
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			15 - 243	AA661921, AA613591, AA063173, AI270117, AW193265, AI583283, AI431303, AA527630, AA689526, AW274346, AA584167, AI350211, AW438643, AA828227, AW406755, AI634384, AI345157, AI370094, AI284640, AA490183, AI613280, AL044940, AA503600, AI370074, AA559290, AI358229, AI345654, R98359, T94842, AW023990, AI860013, AW083402, AW303196, AW083364, AW274349, AI754658, AA826303, AI305766, AL119691, AA326372, AW301350, AA847409, AA468244, AA812281, AA613397, AL046409, AA634889, AA482711, AA653375, AW021207, AA658362, AA483223, AA577906, AI688846, AW264934, T40452, AI494203, AI962050, AA493708, AW419262, AA599920, AW193432, AW088202, AW069769, AA601433, AI619997, AA630925, AA551503, AI918421, AA083046, AA855101, AI687343, W45625, AA580808, AI625244, AA847499, AW196064, AW302013, AI698447, AI744995, AA581903, AA584805, AA661814, AA492081, AA603185, AI754955, T51911, AA992351, AI696962, AA467820, AL041690, AI358431, AA502860, AI289067, AW263477, AA782304, AA548586, AW302903, AW050498, AI241821, AA169263, T41259, AI459768, AA664015, AA719805, AI054352, D52587, AA834667, AA569471, AA574442, AW408047, AA938105, AL038705, AI054343, N53150, AI084294, AW261871, AA613227, AW021583, AA623002, AI282511, AL036037, AI054343, N53150, AI084294, AW261871, AA834755, AA494097, AA602047, AI866160, AW149156, AA491831, AI375710, AL038785, T40308, AL079511, AW273218, AA525824, AA584201, AL046205, AI886432, AA737318, AA848134, AI963720, AA618452, AA548689, AA857486, AI251002, AW265385, AA838190, AI338350, AL037683, R40056, AA309530, AA483771, AA491862, AA578861, H40936, F08473, AA610688, AA613203,
		1 - 229		
	715337			
HCUFO43	9221			

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HCUFO36	9222	575850	1 - 441	15 - 455	
HCUFO24	9223	677273	1 - 452	15 - 466	AA306060.
HCUFO11	9224	967156	1 - 453	15 - 467	AI267858, AI267573, AI267490, AI267216, AI267669, and AC005332.
HCUFN78	9225	773620	1 - 363	15 - 377	AA442883, AW204253, N95221, N95171, AW340237, AI222434, AI812038, R31121, AA618508, AI983344, AII143805, AA879440, AI250910, AI654496, R31082, R48546, R41487, AI659922, AI698459, T98808, R79982, AA909113, R25153, H67267, R07369, R76503, R83351, R77383, H54440, R27769, H21958, and H62374.
HCUFM35	9226	706461	1 - 400	15 - 414	T52610, AA283902, and AA703521.
HCUFL40	9227	711242	1 - 389	15 - 403	AI538438, AA086258, AI383110, and AA112018.
HCUFK35	9228	706460	1 - 1041	15 - 1055	AA190564, AI802383, AA193673, T54701, H60718, T54617, AL033527, AC005015, AC004554, AF196969, Z98200, AL080243, Z98941, AC003102, AL034379, AL009181, AC005513, AC005102, AC004889, AP000047, AF067844, AC004526, AC002378, AC002477, Z81364, AC005529, AC005523, AP000365, AL021407, U91318, AC005081, AC004216, AC009405, AP000115, AL096791, U95739, AC005755, AL121603, Y18000, AC006487, AP000696, AC004841, AC004983, AC005994, AC005291, AC004685, AL096773, AC005592, AC004975, AC006312, AC004832, AL023096, AL031666, AL034417, AL023284, AL080241, AC007425, AC006449, AP000502, AF053356, AF001550, AC003950, AL031681, AL035685, AL035422, AL049744, AL021154, and AC002302.
HCUFK09	9229	961145	1 - 424	15 - 438	AA584134, AA583892, and AC006276.
HCUFI08	9230	850074	1 - 206	15 - 220	AA156314.
HCUFI50	9231	974472	1 - 411	15 - 425	AA095641, AA471338, Z66259, and Z66258.
HCUFF74	9232	765662	1 - 382	15 - 396	AA100176.
HCUFE55	9233	731843	1 - 171	15 - 185	AI359088, AI420695, AI419227, N92325, AA424589, AI246165, AI277557, AII123268, AII122787, N31489, AI160097, and AL031297.
HCUFE54	9234	730745	1 - 300	15 - 314	AA250762.
HCUFD70	9235	757280	1 - 629	15 - 643	N73061, R10527, N53696, AI077389, AI032040, and R10119.
HCUES01	9236	916805	1 - 596	15 - 610	AA565210, and AA565209.
HCUEQ12	9237	922556	1 - 435	15 - 449	AA043442, W79487, AA670449, AI801522, AW152284, AW328473, AI270655, AI819023, AI884682, AW071997, AI523995, AI831391, AI827306, AW268528, AW006973, AI625967, AI719530, W79431, AW194190, AA630129, AI709152, AI207503, AW083219, AW235333, AI680026, AI797189, AW275903, AI282238, T30026, AI832628, W79332, AI970208, R14878, AI968008, AI652332, AI631584, T30434, AW196568, F20226, T47161, AW384586, AI867971, AW384680, T23926, AL047696, AW384676, AA632058, AI432606, AA043441, T34452, AW235729, AI674454, AW384658, AW003005, W79631, Z43470, AW384653, W00670, F08757, R21703, H05366, T27643, AA448723, N41797, T80148, AA316541, T32038, N98906, AI371701, H17706, AW409853, AW062715, AA075111, T31757, H23423, T36166, W23945, AW062719,

| HCUEP32 | 9238 | 586999 | 1 - 261 | 15 - 275 | F05919, W35174, M62128, N25478, W25399, AF113701, AC005297, and AL110153.
AI284640, AL046409, AI431303, AA490183, AI270117, AA521399, AA521323, AW274346, AW193265, AI963720, AA834707, AA584167, AA623002, AI754955, AA610491, AA613203, AW088846, AI583283, AW303196, AA581903, AW274349, AI613280, AA493471, AI281881, AI860013, AL119691, AI350211, AW301350, AW268300, AI345654, AA613227, AL042853, AW419262, AI305766, AL121235, AW270382, AW302903, AI708009, AW327868, AI345157, AA720702, AA469451, AA721056, AL138265, AW028429, AA610688, AA526787, AA587604, AA877817, H56509, AI633390, AW021583, AI610920, AA682912, AI192631, AI625244, AI345681, AI345675, AI732120, H71429, AA832181, AI434695, AI696962, AA219129, AA584145, AA649642, AI536665, AA507824, AA503475, AA719292, AA503473, AW062724, AA665330, AW162049, AA531372, AI929531, AI339850, AI919265, AL038705, AI064864, AW029038, AW304584, AI358571, AI962050, AA468131, AA856969, AA829223, R88888, AA846935, AW249224, AI801482, AA775207, AI754658, AA478355, AA713815, AW088202, AW270270, AA394271, AL037683, AI249997, AI570261, AI611990, AL043719, AA837084, AA522942, AA632837, AI281468, AA548058, AI708125, AI969436, AA679514, AI917271, AA551503, AA577906, AA244357, AI889781, AW083402, AF034184, AW276817, AI798473, AI251436, AI918421, AA525824, AA846876, AA523838, AI567674, AA610493, AW439958, AI168185, AW438853, AW440836, AA771811, AA491814, AW167372, AW261871, AW069769, AI133164, AW276827, AA584195, AA582911, AL044940, AA601222, AA713891, AA482711, AL046205, AW073470, AI744995, AA683258, F27407, AA834792, AI133636, AA649781, AW166815, AA503600, AA523837, AI251002, AL134972, AI749559, AA533303, AA661948, AA662225, AI110760, AA649705, AI473943, AL042420, AI567076, AI688846, AI053672, AI634384, AI471481, AA680243, AI679782, AA491284, AA351056, AW265385, AI890923, AI939465, AA584201, AI499938, AA599920, AW193432, AA584752, AI469003, AA601492, AA634146, F30933, AA580808, AA493206, AI368745, D83989, AF077058, X55929, AF015156, U18391, U18392, U18394, U18395, X55925, X54179, X75335, X75006, U57801, U04355, X55926, U57009, X54181, X54178, I51997, X55933, AF015147, U67831, X55927, U18396, X54180, X55924, U18387, U18393, U57004, AF015151, X54176, U67832, X54175, X55931, U18398, U18388, U67825, X53550, U57007, U18399, Z22650, U67829, U18390, X55922, X55932, U18400, AF015153, U02532, AF015149, U67211, X54177, AF015167, S43650, S75201, U57005, AF015166, A39972, AF015155, U67233, U67231, M37551, X91841, U67222, X55923, U67226, U67827, L47228, U67217, AL050097, U67229, X88791, Z49816, AC006126, U67225, U18389, AL023882, AF015158, X55930, AC005251, AF015148, Z69666, U02531, U14705, U14695, U14694, AC004686, AF015154, X76629, AF074708, M37547, AC005821, U72787, AC002377, Z78627, AF145473, AC005291, AF141976, U14698, AL022302, AC005412, AL022163, AF088219, U67216, AC004381, S75337, M87919, AC004887, AC007043, AC004626, AF158642, AC004901, AC005694, Z81369, AC008014, AF015162, AC004592, AP000555, |

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HCUEO74	9239	576576	

HCUEO20	9240	669764	1 - 534	15 - 548	AA468022, H23653, AA101689, AI633025, AA683258, AA834707, AL038498, AA502104, AA467750, AA493975, AA467932, AW264934, AW075948, AI149478, AA877935, AI469968, AA309257, AA569661, AW085780, AC007546, AC007298, X54181, AL031281, AL121603, AL049825, AC007043, AP000962, D83989, X55926, AC008101, AC004638, AC008038, AC007214, AL049871, X55927, U18394, AL021940, AL035587, AC005242, AC008080, AL035659, AB023798, AC008079, AL031123, AL109865, AC006312, AL023494, AC005406, AL021918, AC008014, AC004019, AP000161, AL031650, AC007216, AR036572, U91328, AL023284, AC000025, U95742, U62317, AL035423, AC002430, AC005527, AC003081, AL021877, AC007384, AC004650, Z98884, AC009227, AC006450, AC006211, AL033392, Z82244, AC000052, AP000275, AL096770, AC006017, AC008039, AC005632, AC004745, AP000123, AC002094, AL022322, AP000105, AP000037, AP000204, AL078477, AC004686, AL031983, AC004690, AC005046, AL117329, AC007488, U66059, AC002331, AC007011, AJ003147, AC002549, AC005157, AC007130, AC004815, AC004066, AC005553, AF088219, AC002540, AC007537, AC006213, AC006239, AC006479, Z69666, AC009044, X54175, AL121694, AC004979, AC004057, AC007270, AC005253, U67229, AC004257, AC004940, AL032822, AL022163, AC003977, AC004592, AC008064, AP000143, AL133245, AP000567, AL031286, AL031293, AC007708, Z93023, AL021393, AL122021, AC007242, AP000204, AP000126, AP000244, AP000090, M26434, AC004812, AC008372, AC005066, AC005353, AC004383, AL132992, Z94277, AC002400, AC002377, AC006501, AC002045, AL008627, AC010168, AL022166, AC010722, AL009029, AC006226, U18395, AC005411, AC005909, AP001038, AL049834, AC010170, AC009247, AC005284, AL049829, AC008055, AC005291, AC005914, AC006442, AC005261, AL133445, AC133445, AC007656, AC004833, AP000459, AC009330, AC004381, AC004816, AC000066, U69730, AC002301, AC007671, Z94722, AP000025, U18391, AL031685, AC007437, AC006288, AL049749, AP000162, AL031428, AC007243, Z86061, AC000353, AF227510, AC005387, AC004848, D87675, AC006997, U95740, U67233, AC007064, AC005529, AL035249, AC007252, AL031311, AL035402, AC010197, AC004675, AC002465, AC004626, AL096776, AF055066, AL133371, AC004987, AC002470, Z82194, AC007666, AC010202, AJ010770, AC005962, AC004160, AL031116, AC007877, Z82189, AF123462, AC005678, AC005535, AC006548, AL049776, AC002289, AC007363, AL031054, AL078593, AC005011, AC006371, AC008115, AL022722, AL008725, AL049836, AC004152, AC005250, AC006005, AL023879, AC004502, AC005531, AC006143, AC006058, AL133396, AF042090, AC006989, AC003085, U57009, U91322, AC006323, L44140, AC005180, and AC004612.
HCUEM93	9241	792424	1 - 385	15 - 399	N23656.
HCUEM15	9242	660450	1 - 356	15 - 370	T71381, T71249, T89573, and AI129177. AA173444.

HCUEL24	9243	677300	1 - 468	15 - 482	H23054, and R54553.
HCUEL07	9244	953587	1 - 548	15 - 562	AI573289, AW295640, T62516, and T62587.
HCUEG27	9245	683541	1 - 532	15 - 546	H62726.
HCUEF38	9246	706450	1 - 280	15 - 294	
HCUED05	9247	932123	1 - 181	15 - 195	AA425283, T94247, C15966, AI754926, AI547110, AW085751, AI523991, R51854, AA063493, AA063419, AI696455, AC005755, AL049694, AL035086, AC004526, AL109628, U91324, AC011311, AF088219, AL008734, AF207550, AC004675, AC004098, AP000497, AL021707, AL031668, AC007563, AC005519, AF196779, AC007051, Z93023, AC005082, AL022313, AC006509, AF084517, AC006449, AC005695, AC006511, AL133448, AC006139, AL049776, AC004263, AC004856, Z82198, AP000300, AC004000, AP000501, AC004797, Z97054, AP000359, AL022311, AC006077, AC005779, AP000496, AC003013, AL049757, AB014079, AP000344, AP000045, AP000113, AF001549, AC005372, AC004148, AC005067, AC005207, AC006121, AC000353, AL080243, AC004702, AC005899, AL022316, AF217403, AC004072, AC005726, M63544, AC005839, U52112, AC004491, AC006441, AC004805, AB001523, AC007934, AJ003147, AL133244, U62293, AL035420, AP000514, Z97632, Z97056, AC004236, AL022721, AL022322, AL132712, AC004650, AD000092, M89651, AL034379, AC003109, AC004876, Z82215, AC000115, AR004690, L78833, AC005099, AC005225, AC002395, AC004929, AC005668, AC007919, Z94056, AC005261, AL096678, AP000355, AL008582, AC005057, L78810, Z83838, AP000354, AC005624, AC005179, AC004134, AC006211, AL035400, AL050321, AL033392, AL031427, AL096701, AL022302, AC005274, AC002559, AC004841, AL008722, AC007676, AC003065, AC003043, AC002369, AC004884, AL008716, AC005412, AC007371, AC005829, AL020997, AC005003, AL031680, AC005033, AC005251, and AC004167.
HCUDY74	9248	839955	1 - 375	15 - 389	AA501344, AW086257, AI569202, AI267847, W07032, AI510838, AW088202, AA584201, AW406755, AI580652, AI255095, AA344959, AI493546, AA488395, AI358229, AW301818, AI865364, AA551509, N43757, AI547286, AA384502, AL041368, AI205126, AI989742, AW236342, AI433187, AA450199, AL138265, AW023672, AI921649, F29989, AI376100, AL036706, AW361583, AA428414, AI076396, AW074059, AI356904, AI357477, W60516, AI922654, AI564284, AI053429, AA482711, AA916039, AA658235, AI561335, AI610159, AW074398, AA063118, AA828851, AW265294, AI307426, AA826032, AA486680, F28576, AA394271, AI250019, AI365988, AI963786, AW440976, AA557325, AI569086, AI354397, AW339687, AA828680, AA593060, AI284640, AA828696, M78150, AI635272, AA723017, AA626678, AA826144, AI038279, AI016000, AI079910, AI144055, T29360, AA136829, AA515051, AL079645, AI471464, AL042856, AI291124, AI471487, T40286, AI003743, AI291268, AA679266, AA228420, AI537030, AI053816, AI054246, AI431688, F36273, AI453383, AI679782, N27353, AI871825, AW080134, AL040130, AA640900, AW301538, AA654968, AA366035, AF177861, AI648558, AI254649, AI792580, AI345241, AI792510,

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AW069427, AW103918, AL042213, AA658093, AI049722, AA349854, F19258, C05755,
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AA654627, AI796627, AW166815, H71429, AW410116, AII10770, AI358343, AW272758,
F34558, AL040547, AI469624, AW020340, AI367975, AA661948, AW265197, AA653964,
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C19058, AI963720, AI653809, AA132450, AI917271, AA642060, AI904894, AI683577, C17838,
AI049634, AA484059, AI445516, F24284, AL120295, AA586655, AA602069, AI281881,
AI216978, AI348731, AA730362, AI792864, AI733957, AW265385, AI624698, AI061334,
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U40455, AP000355, AC004209, AL133246, AC007429, AC005145, AC003657, AC009501,
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HCUDX89	9249	1 - 571	15 - 585	N88601, AA247827, N84048, N84855, N83168, AA095359, N83992, N83991, N89520, AA096046, AA093224, AA247964, H58760, N88782, AA096066, AA471338, AA095641, N84718, N86694, N83993, N84712, N55698, N88518, N84830, N84829, N87989, N87898, AF039698, U48696, AF103726, S78798, AR066487, AF102850, AF045432, AI243486, AF032922, and U39066.
HCUDU18	9250	1 - 247	15 - 261	AA167604.
HCUDQ81	9251	1 - 317	15 - 331	AL138265, AL046409, AI284640, AW193265, AI334443, AI963720, AI431303, AI350211, AI754658, AI613280, AI281881, AI133164, AL046205, AI270117, AI345654, AA665330, AI110770, AW327868, AL119691, AA521323, AW303196, AW274349, AW419262, AA720702, AA581903, AL038785, AL038455, AW410400, AW301350, AI954260, AL041690, AI570261, F36273, AA610491, AA521399, AL042853, AL138455, AA394271, AW021207, AI679782, AL120687, AI537506, AI358571, AL037683, AA394271, AA490183, AA526787, AI254615, AW265385, AA551503, AW029038, AI890918, AI355206, AW162049, AI929531, AA649642, AA584201, AI339850, AL044940, AW088846, AI345518, AA630925, AL040921, AI962050, AA587604, AA491814, AI633390, AW269488, AW088202, AI434695, AW088616, AI589230, AI696962, AII49478, AL048925, AI061334, AI053672, AA631507, AW069769, AW238278, AW073470, AA491284, AI471481, AI469968, AA654771, AI289067, AW407578, AI567674, H71429, AI192631, AI610159, AI623720, AW304584, AW276827, AL042420, AW265393, AI610920, AW438643, AA613227, AI368745, AW406755, AI345681, AI345675, AA857486, AI708009, AI890348, AI625244, AI473943, AW439558, AI918421, AA623002, AA482768, AW028392, AI732764, AA826303, AA569471, AA661948, AA533725, AI341664, AW193432, AI358229, AW008952, AA713815, AW028429, AI688846, AW103509, AA877817, AA502103, AW020340, U51696, AL079645, AA682912, AW071196, C06327, AI799642, AI375710, AW080134, AI821271, AA678436, AI904894, AW166815, AL046898, AI307201, AI064864, AI133102, AI919265, AI749559, AW261871, AI005388, AA587256, AI049722, AL044858, AI085719, AW238583, AW083402, C05755, AA468131, N66026, AI619997, AA610493, AA469451, AA493708, AI305766, AL038705, AI801482, AL120674, AI251002, AI587583, AI587565, AA908687, AA522942, AW302013, N35896, AI679132, AI687343, AW072923, AA601388, AI365988, AW104748, C75026, C06458, AA747276, AW270270,

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AA913154.

N45489, AA639774, AI453267, AA410355, AW009346, AI676083, AA565422, AII123546,

	9252	881366	1 - 577	15 - 591	
HCUDQ45					
HCUDN89	9253	811185	1 - 315	15 - 329	

HCUDN82				AI823714, AI807753, AA084901, AA284234, AI312027, AI436666, AW001163, AA372073, AF076931, AF099739, AB016869, and AB019245.
HCUDN71	9254	1 - 429	15 - 443	T63603.
HCUDK08	9255	1 - 381	15 - 395	AA278703, and AW292815.
HCUDI17	9256	1 - 395	15 - 409	AI629017.
	9257	1 - 214	15 - 228	AA578621, AA453558, AI243486, AC005696, AF196969, AC006211, AC005231, AL022476, AL121603, AC004805, AC004643, AC002996, Z93016, AC005295, AC006126, AC007226, AP000042, AP001069, AP000031, AC005005, AC004448, AC002302, Z82173, AL022312, AL023882, AC002073, AC005971, AL035423, U57833, and AL050348.
HCUDG26	9258	1 - 419	15 - 433	AA086020.
HCUDD07	9259	1 - 346	15 - 360	AL117375, AL133163, AC006512, AC006241, AC005225, AL050348, AC007240, AC006450, AL034417, Z98200, AL035413, AC035015, AC004973, AC005513, AC004912, AC005519, AC005003, U07563, Z85987, AP001054, AP000343, AC008134, L78810, AC005006, AL109984, AC005697, AC005300, AC004882, AC005399, AL133371, U91321, Z97054, AC006946, AB001523, AC005081, AC006465, and Z84466.
HCUCK58	9260	1 - 253	15 - 267	N78946.
HCUCJ14	9261	1 - 490	15 - 504	W87347, T86628, and AW044560.
HCUCI23	9262	1 - 196	15 - 210	AA021595.
HCUCH29	9263	1 - 680	15 - 694	T03576, AA515915, AI351839, AF196971, AC002425, AC004859, AL096701, AC004216, AC005049, AL034548, Z97054, AC006449, AF001552, AC009516, AC005844, AF196779, AL096774, AL109758, AC002544, AL023807, AC004079, AF111168, AC004999, AC002369, AJ246003, AC006064, AC012384, U47924, AC007021, AC005081, AL022320, AC006120, AL121603, AC006088, Z84469, AC005529, AF045555, M89651, AC005702, AB023048, AF118808, Z83822, AC004882, AC004019, AF111169, AC005082, Z85987, AC007055, AC003043, AC007216, AC002551, AC004491, AC007842, AC004253, U91323, AP000553, AC006430, AC005666, Z97630, Z83844, AC004526, AC004876, Z98742, U95742, AL031733, AL079342, AC007277, AC005399, AL121653, Z85996, AC005619, AL109827, AL022165, AC004150, AL049636, AC004383, AF196972, AP000134, AP000212, AL035086, U95740, AC000052, AC002115, AC005620, AP000501, Z99716, AL121658, AC002477, AC002288, AC007388, AC004222, AF134726, AC005011, AC006512, AL132987, AC005527, AC006344, AB026898, AL133163, AC004890, AP000689, AC005067, and AC004832.
HCUCG40	9264	1 - 141	15 - 155	AA807580.
HCUCG07	9265	1 - 287	15 - 301	N29857.
HCUCD83	9266	1 - 411	15 - 425	AA083732, AI968034, AI160994, and AA083733.
HCUCD05	9267	1 - 363	15 - 377	AI014555, AI971212, and AI765152.
HCUBX45	9268	1 - 497	15 - 511	

HCUBV91	9269	790368	1 - 431	15 - 445	AA055642, AA857295, and AC002433.
HCUBT35	9270	850126	1 - 312	15 - 326	N58798, AI472668, AI520984, AA295874, AA496309, AA158240, AA908682, AA610822, AA552989, AI086495, AW247156, W44559, AA372231, AL049869, AL049591, AL109952, Z97053, AL136295, AC005377, AP000500, U91322, AC010205, AC005102, AL031428, AC006536, AP000512, AC008585, AC011456, AL139054, AC005839, L29074, AF205588, AC007676, AB023049, AP000402, AC008040, AL121658, AC005390, AF042089, AL031311, AL033547, AC007510, AC005332, AC002400, AC005179, AF207550, AL035587, AC004134, AL109628, AC004882, AC006115, AC005971, AC007051, AC006952, AC004017, AL021707, AC005305, AC005409, AC007229, L14561, AC005207, AC007055, AL020997, AL078602, and AC005288.
HCUBS07	9271	953861	1 - 386	15 - 400	W86764, AI908342, and AL033518.
HCUBP94	9272	574198	1 - 137	15 - 151	
HCUBP82	9273	526773	1 - 56	15 - 70	
HCUBP48	9274	577289	1 - 397	15 - 411	H93547, AI307499, and AL022171.
HCUBP34	9275	576462	1 - 370	15 - 384	AA420546, AA524800, AI284640, AI246796, AI733856, AI669589, AW023111, H94979, T05118, AW193265, AW237905, AW440935, AI249365, AI923052, AA525331, AA635433, AW069227, AI610159, AI366555, AA847499, AI624528, AA714110, AA747757, AA502991, AI277373, AI814820, AW328446, AAA992126, AA651639, AI284543, T53128, AI270117, AA630854, AI350211, AI754653, AI278440, AW023975, AI003797, AA229005, AL039042, AL039041, AI250552, AI332615, R94909, AA570255, AI251034, AI345497, AI567391, AA632757, AA744018, AI310670, AI285651, AI251284, AI251203, F36273, H79308, AA493808, AW303098, AA311535, AA746911, AW265688, AL031282, AL022326, AP000501, X54176, AL049780, AC004125, D83989, AC007537, AC005932, AF121898, Z22650, AC003070, AC005772, AC005940, AC005368, U57006, U18392, Z83844, X54180, X55926, X55925, D87675, AC003041, AC004651, AB023050, AL020993, I51997, AC005391, U18393, AP000511, U57009, U18391, U18394, U57005, U57007, AL022327, AC006552, Z97054, AL034548, AC005261, AC004815, AC004886, Z84480, AP000553, Z97056, AL139054, AC006088, AC007371, AC003112, U57008, AC006261, AL035398, AL121769, AL121655, U91323, AP000355, AL031255, AC004382, AF196969, AC005829, X55931, AC006257, AC008044, AC005071, AL021397, AC004893, AC006121, X54179, AC004985, AL031668, AL031276, AC005519, AL096701, AP001052, AL121657, AL049872, Z93017, AC009516, L78810, AL021918, AC004841, AP000350, AC005280, AL021154, AL022098, AP000089, AC007435, AL035086, AL121653, AC006077, U57004, AC004895, Z97630, AC004522, AC004655, AC006441, AL021453, AB001523, AC002395, AC004033, AP000142, AC000052, AC006511, AC005839, AF047825, L78833, Z84469, AC005859, AP000555, Z98200, AL109801, AL023575, AC007308, AC005747, AC002425, AC004583, AC010170, U67810, AC005257, AC007227, AC002365, AC004634, AL135744, AC003966, AC005288, AC012384, AC005620, AP000569, AL121595, AC005595,

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HCUBP10	9276	1 - 201	15 - 215		AI538236, H99700, AA757426, T62078, T06731, AL041375, AC007842, AC007199, AC005971, AC005529, AL109758, AC000085, Z83844, U47924, AP000689, AC003010, AC010582, AB003151, AC007376, AF111167, AC005899, AF030453, AC005031, AC004999, AL109985, AC005921, AC005081, AC005088, AC007227, AC002072, AC005527, AC002351, AF111169, Y18000, Z98304, AC007227, AC007537, AC005377, AC009275, AC007388, M30688, AC004382, AC007051, U78027, AC007308, AC002470, AC007057, AF205588, AL035422, AC007792, AC020663, AC007057, AL049872, AC002350, AL030996, AL021937, AL050348, Z94802, AF196969, AC005255, AC004033, AP000509, AC005500, AC006965, AC004264, AC002073, AL121748, AL022327, X54486, AC005027, AL031602, AC004217, AC005544, AL049712, AC006486, AC005531, AC006441, AC005265, AL031602, AC005231, AL031577, D00591, AC008079, AC004865, AC005291, AC005913, AP000067, AC005231, AL049760, AC004522, AC004706, AL034376, AC005625, AC006241, AC002554, AL049760, AC004990, AL034376, AC005625, AE000660, Z86090, U91320, Z75407, Z82244, AC006327, and AC005082.
HCUBO67	9277	1 - 261	15 - 275		AA533534, AA569471, AI434695, AW407578, T60681, AI801482, AA760839, AW408047, AA630672, AA502991, AI932599, F11718, AA224889, AW328202, AL048925, AI143051, F00564, AW270258, AW002350, AA829166, AC008115, AC005666, AC005800, AP000212, AP000134, AP000251, L44140, AF001548, AP000030, U95742, AL049872, AC007216, AC002312, Z68870, AC006042, AC005839, AC005231, AC002430, AC004517, AC007421, AC002306, AC007384, AP000047, AC005482, AC005520, AC005632, AC016025, AL096767, AF053356, AC005808, AC003665, U63721, AL022316, Z94056, AC005921, AL035685, AC005288, AC006275, AL135744, AL031282, AC005057, Z97053, AC001226, AC005562, AC004967, AP000115, AC004878, AP000553, AC007934, AC004216, Z54334, AL049539, Z98742, AL096763, AL109798, AL021155, AL035659, AL137100, AC005387, AP000152, AC005667, AL035400, AC004813, AC002300, U91323, AC004707, AL022302, AC002302, AC006254, AC006285, AF196779, AC004458,

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HCUBM73	9278	577294	1 - 442	15 - 456	N33622, AI658817, and AI818024.
HCUBM49	9279	722190	1 - 638	15 - 652	W86247, W86303, and H70314.
HCUBL10	9280	968223	1 - 455	15 - 469	AI479068, F07564, H74309, H00154, N74027, AW084004, AA351808, N80390, D51809, AI473549, N47820, AA015948, AA454504, AA827383, AI699049, AL037006, AI004740, AA721998, AA757758, AA713735, AW151761, H83136, AI804519, AI902426, AL138065, AW193523, AA845825, T46997, AI745335, AA658179, H28464, H43183, AA768179, N56933, C14599, AW029565, AW019964, AA736713, AI860535, AI476460, AI143653, AI954464, AA662614, AI811319, AI039089, AA662989, AA326014, H47736, AA372231, H27788, AA652771, C14880, AA434346, AI357815, AI928890, AA482323, AI018726, H90845, AA427808, AA357979, AA653291, AI040273, AA297496, T03928, AA862029, AA126271, AA525407, T03401, AA831801, AI246061, D44998, N70027, AA832016, N75708, M78131, AI889426, AI819391, AA513884, AA340035, H77442, AII23398, AA371410, AA506952, T69899, AA741301, AA678616, AII31261, AA569220, AI583801, AA515351, AI683019, AA595656, R87135, AA218874, AA084950, AI798242, AI254781, T60940, AI219606, AI739125, AW069273, AI871691, AA665304, AA774006, AI207476, AA083681, AI088903, AA368201, N20034, AA636102, AA083839, AI829480, AA714073, AA714073, AA827281, AA384911, T39390, AP000692, AL096701, AI929410, AI753672, AW068580, AA847570, AA077796, AA533660, AA515172, T40550, AL039930, AA483043, AI883043... Z94721, AC006332, AC000353, AC003026, U62293, AC005263, AL133245, Z83826, AL031597,

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HCUBJ45	9281	723364	1 - 385	15 - 399	R94226, H60821, F27393, and AW182343.
HCUBG69	9282	757752	1 - 243	15 - 257	AI357974, AA746939, AA564682, AA804862, AW268314, AI732171, AA564510, AI032114, AA583390, Z73359, AC005837, AC006449, AC000025, AC005722, AC009516, AF196969, AL035086, AC005844, AC005527, AC002425, AL096701, AC007226, AC004520, AC009247, AC007546, AC007731, AP000556, AC005500, AC005632, AC007676, AC004967, Z95115, AC004067, AC005231, AC005280, AF001552, AC006026, AP000557, AC002470, AL034417, U95742, AL031311, AC006064, AC002551, AC004883, AC007386, AC005332, AC005529, AP000501, AF111168, AC007216, AL049766, AC004491, U96629, Z82190, Z93930, AC005412, AC005399, Z83840, Z98051, Z98200, AC002070, AC005839, AC004815, AC004672,

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HCUBG43	9283	1 - 369	15 - 383	AC005264, AC005899, AL079342, AC005089, AC004383, AL022336, and Z85987.
HCUBE89	9284	1 - 525	15 - 539	AI540121, AA243711, and AA233056.
HCUBE49	9285	1 - 196	15 - 210	T58148, and AW059603.
HCUBE22	9286	1 - 714	15 - 728	R10475, AA682937, AA601674, R31425, AA689285, AI783581, AW190781, R06346, AA922351, R10346, AA507745, AI567833, AW008089, AI345366, AI310873, AI189682, F31380, AW082559, T39596, AA654661, AW410354, AW250983, AA664942, AI270019, AL041894, AI696854, AA843779, AW103406, N22037, AA658327, AL135262, F18721, AI468971, AI050050, AA527602, AW404225, AA444166, AW302048, AI910608, H68563, AA837642, AA728812, AA583381, AA484639, AI114827, T62614, AI590906, AI335995, H58883, H17602, AA631480, AI630176, AA912287, AA708108, T11828, AI253376, F18553, AA63762, AA594072, AI206841, AI909130, AI216990, AI537356, AA847121, AA565585, AI591375, AI801479, AW020992, AI682665, AI954125, AA582463, AA832175, AA862243, AA527727, AI800180, AA351003, AA985243, AA601356, AI858691, AI580250, AA504694, AW168420, AW188662, AA427470, AL109801, U47924, AL049694, Z68323, AC006112, AC007066, AC005067, AC006512, Z99497, AL034548, AP000300, I56088, AF141308, U89337, AL022163, AL035462, AC004222, AP000146, AC007546, AC005399, AC005933, AL008732, AL021878, AC003071, AC004526, AL030995, AC006511, AJ009610, AL121657, AP001060, AC004690, AL031672, AC004884, AC006312, AP000113, AP000045, AC003049, AC007666, AC002563, AC008134, AL096791, Z69705, AC004754, AP000246, AL117352, AC007277, AC004106, AC005839, AL049765, AC007421, AP000208, AP000130, AL031433, AL031848, AF207550, AC006946, AC005796, Z84480, AL080243, Z81450, AP000247, AL079342, AC004652, AC006947, AC009247, AC002527,

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HCUBA93	9288	1 - 514	15 - 528	N73144, N53783, H78605, AA354792, AA114131, AA642051, R91175, H78687, N94134, AA179974, AA131083, AF155118, AC007731, AC005500, AC007536, Z97192, AC004526, AC006064, AC004702, Z82179, AC011592, AC007276, AC005284, and AC002064.
HCUAZ01	9289	1 - 325	15 - 339	AA190994.
HCUAW03	9290	1 - 414	15 - 428	AA908349.
HCUAP34	9291	1 - 204	15 - 218	AI216081, AF150368, and AW264157.
HCUAN95	9292	1 - 224	15 - 238	T95118.
HCUAN89	9293	1 - 129	15 - 143	AI601207, AI225250, and F03622.
HCUAN53	9294	1 - 151	15 - 165	AI672824.
HCUAM65	9295	1 - 509	15 - 523	AA299020, AI459177, H70146, AF196969, AC007382, AC005088, AL133163, AL031668, AF030453, AL035086, AL135744, and AP000553.
HCUAL33	9296	1 - 345	15 - 359	AA527109, F32749, AC006064, AC005156, AC003108, AC002477, AC004834, AC002425, AC005011, Z74739, and AC008079.
HCUAG10	9297	1 - 154	15 - 168	T86948, AA677953, and AA778938.
HCUAF80	9298	1 - 256	15 - 270	AA150568, and AC005781. AA621980, and AA621989.

HCUAF01	9299	850153	1 - 405	15 - 419	AL080243, AC005971, AC004216, Z85987, AL117258, AC005581, AL031659, AL049636, AL049569, AC004491, AL133163, AC005086, AL008721, AC004534, AC005089, AC005229, AC002350, AL031255, AC007546, AC012384, AL096791, AL034420, AC005702, AL034429, U91323, AC007688, AC005972, AC006211, AF047825, AC008119, AC006966, AF196779, AF001552, AC007193, AC008115, U91321, AC003035, AC002994, AL035249, AC004638, AC005237, and AL121652.
HCUAA92	9300	792947	1 - 585	15 - 599	AA017432, AI190211, AII68308, AI148392, AA206862, AI361394, AI761755, AI817338, AW005028, AI433437, AA243557, AA954313, W31550, C21014, AC005410, and AC005209.
HCFOP90	9301	862572	1 - 625	15 - 639	AA593533, AI284640, W95976, AI754955, AI431303, AL046409, N75702, AI610159, AW406755, AI281881, AW303196, AI270117, AW193265, AW301350, AI613280, AA828704, AA526787, AI350211, AI149478, AW274349, AI679132, AI053672, AI619997, AA177061, N53150, AA535661, AW088202, AW276827, AA469451, AI305547, AW021583, AL041706, AI570261, AI744995, AI334443, AI345654, AW029038, AI537955, AW193432, AI962050, AI249997, AI696793, AA587604, AI471481, AW148792, AI688846, AW265385, AI339850, AW438643, AW162049, AW261871, AI929531, AI085719, AA720702, AI367975, AA758934, AW270270, AI634384, F36273, AI370074, AA525190, AA491762, AA708678, AA826303, AI821271, AI564496, AW276435, AW073470, AA984708, AA507547, AA367986, AI457397, AI919265, AI732120, AI307201, AL041690, AI917271, AI298710, AA584201, AW072923, AA629992, AW238278, AW188484, AII92631, AA482711, AA649642, AI499938, AI499503, AL138265, AW162489, AA657835, AW157005, F34498, AI801591, AA491284, AI358501, AI871722, AI434695, AL037683, AI289067, AA514737, AI446464, AI375710, AW408643, AA126051, AA126035, AL138455, AI799642, AI200051, AA130647, AI370094, AI564185, H88666, AA847499, AL038606, AW169537, AI587565, AII43242, AI246796, AI587583, AW340844, AI679782, AI358571, AI254615, AI312309, AW089322, AW339568, AA577906, AI379719, AA559290, AL046205, AI254615, AI312309, AW089322, AW339568, AA577906, AI379719, AL038785, AI754658, AW072587, AA719805, AI287651, AA515751, AA244357, AL044940, AW083402, AI357288, AA908687, AII33164, AA992126, AW406162, AI761471, F29702, AA488746, AI076616, AI537506, AII84226, AII10770, AA226715, AA837084, AI341664, AW168342, AA362573, AI334435, AA515905, AA613345, AII48277, AL042853, AA486559, AW020992, AW270382, AA350859, AI355224, AA426277, AI267818, AI733755, H93144, T07451, AA613227, AA502155, AA551503, AA654771, AA985038, AA653618, AA557686, AA490183, AA502866, AI246119, AA630362, AI358431, AI064864, H49822, AA084070, AA730362, AI539563, AI625244, AI282832, AL119691, AA856954, AA133333, AA483223, AI286356, AA581903, H52161, H00934, AI674873, AA503473, AL120687, AI291124, AA669840, AI282310, F03525, AII68185, AA631507, AL135724, AA348311, AA579179, AA601388, AW410400, AA610491, AC005785, U18391, D83989, U18394, U18399, X55931, U57009, U18395, X55925, U18396, X54181, X54175, X55926, X54180, I51997, U18392,

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HCFOO25	9302	678200	1 - 543	15 - 557	
HCFOO01	9303	916687	1 - 410	15 - 424	
HCFON45	9304	850372	1 - 979	15 - 993	
HCFOF34	9305	955905	1 - 441	15 - 455	